Author Index, Volume 121

Abramowitz HB, 52
Albano E, 16
Aliapoulios MR, 398
Alican F, 150
Alrich EM, 583
Anas P, 150
Anderson A, 490
Anglem TJ, 363
Antonopoulos D, 612
Arvan DA, 57
Ashworth C, 387
Austen WG, 357, 478
Awad JA, 307

Bach RD, 20
Balas P, 612
Ballinger WF, 184
Barenfus M, 588
Bartlett RM, 220
Baxter JC, 741
Beal JM, 510, 561
Beazley RM, 523
Bendon ML, 169
Berger RL, 437
Bernhard V, 739
Berry BE, 675
Binder P, 561
Bizer LS, 586
Blakemore WS, 169
Boehm OR, 165
Bolin JA, 531
Boria AR, 580
Bose B, 143
Botsford TW, 398, 702
Bouterie RL, 576
Brassard A, 307
Braun RA, 641
Bruce J, 541
Buckley MJ, 357, 478
Burns GP, 115
Burrington JD, 213
Bury KD, 174
Butcher HR Jr, 52
Buxton RW, 523
Byrne JJ, 379, 387

Cadrin C, 307
Caldwell FT, 349
Canter JW, 46
Caron WM, 307
Castillo J, 100
Cayirli M, 150
Chlumská A, 650
Christensen C, 610
Chrysanthakopoulos S, 716
Colcock BP, 418
Collier RL, 283
Condon RE, 107
Conn J Jr, 561
Converse CF, 39
Couture J, 706
Crawford FA, 644
Crow RW, 684
Custer J, 572
Czernobilsky B, 13

Daggett WM, 357, 478
Daliana M, 241
Dardik H, 656
Dardik I, 656
Das JB, 454
Davis NP, 260
DeCosse JJ, 39, 293
DeLaurentis DA, 392
Dennis DL, 160
Deren MM, 485
Deschênes L, 706
DeWeese MS, 600, 665
Dickman RW, 628
Dieter RA Jr, 689
Dixon JA, 610
Djang E, 743
Donovan TJ, 490
Drapanas T, 195, 322
Dreiling DA, 698
Dunn MI, 724
Dunphy JE, 569

Edlich RF, 572, 668
Eilert JB, 561
Ellison EH, 684
Ellison LH, 490
Elzinga WE, 593
Eraklis AJ, 454
Evans WE, 206, 739

Falconer CWA, 541
Fallahnejad M, 143
Filler RM, 454
Fish JC, 271
Fletcher, WS, 160
Fogelson FS, 398
Foster JH, 490
Frey CF, 20
Friedmann P, 392
Frobese AS, 143
Fry WJ, 122
Furcinitti JF, 374

Garick EI, 379
Garneau R, 706
Glassow F, 637
Glenn WWL, 485
Goldsmith HS, 100
Gomez J, 283
Graham C, 119
Graham WP III, 169
Gray R, 588
Green HL, 169, 614
Greenstein AJ, 698
Griffin WO Jr, 165
Gurll N, 449

Hafner CD, 673
Hammon JW Jr, 644
Hanafee W, 588
Hardy JD, 3, 150
Harrington JT, 467
Harrison JH, 631
Harthorne JW, 478
Hawthorne HR, 143
Hayes MF Jr, 129
Hearn D, 531
Heifetz CJ, 634
Helfand Z, 449
Henzel JH, 600, 665
Hermann RE, 505
Herrington JL Jr, 215
Hewitt RL, 195, 322
Hicks R, 702
Hidalgo F, 548
Hightower F, 30
Ho KC, 355
Hoerr SO, 504, 505
Horsley JS III, 583
Hovanesian J, 566
Hubay CA, 328
Humphrey LJ, 165
Hunt TK, 569

Idelson BA, 467
Ingersoll FM, 473
Izant RJ Jr, 62

Jacobowitz D, 143
Jaffe MS, 736
James PM Jr, 30
Jasuja M, 689
Jawetz E, 569
Jelinek V, 650
Jewell WR, 165
Jordan GL Jr, 503
Jordan PH Jr, 229
Judkins MP, 160

Kafrouni G, 743
Kakvan M, 432
Kastagir B, 716
Kawashima K, 341
Kazarian KK, 746
Kendrick JI, 298
Keo T, 505
Kerstell J, 712
Kilman JW, 710
Klassen KP, 710
Klinkman H, 716
Kondi ES, 368
Kott I, 346
Kraft RO, 122
Krementz ET, 195
Kyriakos M, 184

Laforet EG, 368
Latchis KS, 418
Laufman H, 656
Lavarreda C, 374
Lazaro E, 16
Lazitin L, 289
Leber RE, 363
Lemann J Jr, 467
Lemmer KE, 694
Lenaghan R, 566
Levbarg MS, 606
Lichti EL, 665
Lima JB, 732
Londe AM, 552
Longhi EH, 229
Longmire WP Jr, 68

XUM

Lord JW Jr, 241
Lorenzo GA, 510
Ludington LG, 743

Machleder HI, 720
Mackie JA Jr, 57
Mackman S, 694
Madden J, 572
Madden JE, 668
Maddison FE, 206
Manax WG, 87
Mannick JA, 467
Manwaring JL, 583
Margoles JS, 641
Mark JBD, 238
Marmor L, 355
Martin DC Jr, 351
Massey WH, 160
Massopust LC Jr, 728
Masters H, 752
Masuoka S, 432
Matolo N, 716
Matsumoto T, 129
McClelland RN, 134
McClerkin WW, 385
McCown A, 184
McKee DM, 675
McKinney PW, 561
McLean DH, 576
McManus JPA, 541
Mellish RWP, 412
Mengoli LR, 311
Merkel FK, 617
Mersheimer WL, 746
Meyers BE, 273
Miller DW, 536
Miller LD, 289
Miller RC, 62
Miller RE, 338
Moran JM, 403
Morrissey JF, 694
Moynihan PC, 150
Mulder DG, 720
Mullen JL Jr, 57
Mullins CR, 359
Mundth ED, 357, 478
Murray DR, 165
Myers J, 122
Myers RT, 30

Nabseth DC, 442, 467
Najarian JS, 617
Nedwich A, 30
Neimat SR, 442
Nemir P Jr, 143, 614
Neville WE, 689
Norton RA, 403
Nussbaum M, 679

Oberleas D, 566
O'Brien JJ, 96
Ochsner A, 273
Ochsner JL, 273
Ogden W II, 531
Olsson CA, 467
Oram-Smith JC, 13
Overton S, 122

Panek P, 572, 668
Pemberton LB, 87
Perry AW, 743
Perry MO, 326
Peters CR, 675
Phalen GS, 298
Pifarre R, 689
Pihl CO, 403
Ponka JL, 263
Pope NA, 271
Portilla J, 548
Prager M, 134
Prasad AS, 566
Prusak M, 572, 668

Quarantillo EP Jr, 661

Ragland JJ, 552
Randall HT, 174, 460
Ransdell H, 580
Rao CS, 418
Rawnsley HM, 57
Reagan JW, 39
Reber HA, 13
Reed WA, 724
Reinhardt GF, 328
Reynolds BM, 251
Rheinlander HF, 403
Rhoads JE, 557
Richards V, 217
Risley TS, 385
Rivera A, 548
Rocchio MA, 460
Rodriguez JM, 298
Roeder WJ, 746
Rosati LM, 241
Rosato EF, 13
Rosato FE, 13, 289
Rösch J, 588
Rossi G, 241
Roth LM, 195
Ruckley CV, 541
Rush B, 16

Saik RP, 557
Sakai A, 341
Salomon PF, 338
Salzman EF, 449
Sawyers JL, 119
Schein CJ, 623
Schenk WG Jr, 115
Schmitt GW, 467
Schulte WJ, 684
Schultz RB, 593
Schuster SR, 454
Schwartz GF, 169
Scott HW Jr, 119
Seed RW, 510
Segditsas T, 612
Seidel BJ, 206
Seropian R, 251
Seymour JK, 566
Shingleton WW, 644
Shires GT, 134
Shoemaker CP Jr, 741
Shorb PE, 46
Silen W, 449
Sircus W, 541
Small WP, 541
Smiley K, 326
Smith AN, 541
Smith DP, 732
Snow H, 588
Som ML, 679
Sonne M, 569
Sonneland J, 255
Spratt JS Jr, 552
Stansel HC Jr, 485, 749
Steinhoff NG, 334
Stephens FO, 569
Stephens RV, 174
Stevens LE, 716
Stipa S, 223
String ST, 293
Stuart M, 504, 505
Sung DTW, 91

Talner NS, 485
Tanski EV, 426
Thul J, 668
Tilson MD, 96
Tonouchi S, 341
Trout HH III, 68
Tsou KC, 289
Tucker GL, 334
Turner M, 665
Turner MD, 150

Urca I, 346
Uthappa NS, 263

Van Heeckeren DW, 485, 749
Varner JE, 150
Vincent RG, 527
Vojtíšek V, 650

Wagner FC Jr, 728
Walz CA, 557
Wangensteen OH, 572, 668
Watanabe K, 238
Watkins GL, 518
Weaver DH, 716
Webster JH, 527
Weichert RF III, 195, 322
Weilbaecher D, 531
Weinberger HA, 606
Weismann RE, 426
West JP, 338
Whalen J, 16
Wheelock FC Jr, 223
Whelan CS, 374
White RJ, 728
Wichern WA Jr, 536
Williams JA, 260
Williams LF, 387
Williams LF Jr, 91, 467
Wilson RF, 566
Winegarner FG, 249
Winship DH, 684
Wise L, 184
Wise WS, 349
Withers JN, 620
Wolin LR, 728
Wright HK, 96
Wylie JH Jr, 283

Yamada T, 341
Yashon D, 728

Zollinger RM Jr, 702

Subject Index, Volume 121

(E) = Editorial

Abdominal trauma: Texas style (E), 503
Abdominal viseral circulation via superior mesenteric prosthesis, 736
Abscesses, pelvic, drainage of, coccygectomy for, 249
Absorbable sutures
  polyglycolic acid synthetic, 561
  synthetic, polyglycolic acid polymer as, 656
Absorption, water, in experimental obstruction of ileum, 96
Achalasia, failure of esophagocardiomyotomy for, 143
Actinomycosis of liver, 341
Adenocarcinoma
  papillary, and triplication of gallbladder, 746
  primary, in cystic duct remants, 610
Adrenocorticosteroid therapy and perforated colonic diverticula, 46
Adults, intussusception in, 531
Age and testis after resection of spermatic cord in inguinal hernia repair, 634
Air embolism as complication in parenteral alimentation, 614
Albumin, human serum, elevating alkaline phosphatase, 57
Alimentary tract
  cancer of, immunotherapy in, 165
  fistulas of, nutritional management in, 174
  Society for Surgery of, papers of, 1–208
Alimentation, parenteral, air embolism as complication in, 614
Alkaline phosphatase
  elevated, after albumin infusion, 57
  intestinal, changes in, in bowel ischemia, 289
Ampulla of Vater, carcinoma of, 263
Anastomoses, everting and inverting, 52
Anesthesia, halothane, 720
Aneurysms, ventricular, surgery for, 720
Annulus, friable mitral, suture technic for, 357
Anomaly of right crus of diaphragm involving right renal artery, 351
Antibiotics
  gentle scrubbing in prolonging effectiveness of, in contaminated wound, 668
  in colonic surgery, 673
Anus, imperforate, sacrococcygeal perineal approach to, 62
Aortofemoral bypass, rest pain of buttock after, 617
Appendix, diverticulitis of, 706
Arterial infusion, hepatic, for metastatic tumor involving liver, 160
Arterial monitoring of infant during cardiac surgery, 749
Arterial reconstruction of knee, 392
Arteriovenous fistula, brachial, neurovascular complications of, 716
Artery
  carotid, bullet transection of, 385
  coronary, occlusive disease of, direct coronary artery surgery for, 478
  femoral, grafts of, in diabetic and nondiabetic patients, 223
Artery
  popliteal, entrapment of, 739
  right renal, anomaly of right crus of diaphragm involving, 351
Atrial septal defects
  repair of, 724
  surgery for, 485

Bacitracin-neomycin surgical skin preparation, evaluation of, 557
Balloon catheter tamponade of major vascular wounds, 326
Betadine in contaminated wounds, 572
Bile duct, common
  congenital cystic dilatation of, 68
  malignant obstruction of, side to side choledochoduodenostomy for, 505
Biliary tract
  anomaly, extrahepatic, 741
  congenital dilatation of, 510
  operations in rural surgical practice, 518
Blunt injury to intrahepatic vena cava and hepatic veins with survival, 322
Boerema button in bleeding esophageal varices, 115
Books received for review, 209, 502
Bowel ischemia, changes in intestinal alkaline phosphatase in, 289
Bowel, small
  obstruction of, intravenous fluid infusion in, 91
  resection of, surgery after (E), 213
Bowel stapling clamps in gastric resection, 628
Brachial arteriovenous fistula, neurovascular complications of, 716
Breast carcinoma
  and tuberculosis, coexistence of, 338
  bilateral, and Sipple's syndrome, 732
  mediastinal metastasis from, dysphagia due to, 368
  radical mastectomy for, 363
Bullet transection of both carotid arteries, 385
Burns, 0.5 per cent silver nitrate cream for, 576
Buttock, rest pain of, after aortofemoral bypass, 617
Bypass
  aortofemoral, rest pain of buttock after, 617
  cardiopulmonary, and preoperative coagulation profiles, 689

Cancer
  breast, radical mastectomy for, 363
  colorectal, 398
  immunotherapy of, in man, 165
Cannulation, prolonged central venous, complications of, 600
Carcinoid-islet cell tumors of duodenum, 195
Carcinoma
  and tuberculosis of breast, coexistence of, 338
  bilateral breast, and Sipple's syndrome, 732
  bile duct, and ulcerative colitis, 39

Carcinoma
breast, mediastinal metastasis from, 368
obstructing colorectal, 552
of ampulla of Vater, 263
of corpus, vaginal recurrence of, 473
of floor of mouth, marginal resection of mandible with reconstruction by tongue flap in, 679
of pancreas, palliative surgery for, 271
of right colon, 522
squamous cell, of esophagus, total esophagectomy and descending colon bypass for, 527
Cardiac arrest and resuscitation, electrocortigraphic limits of cerebral viability during, 728
Cardiac surgery in infants, arterial monitoring during, 749
Cardiopulmonary bypass hemorrhage, posthemodilution, and preoperative coagulation profiles, 689
Carotid arteries, bullet transection of, delayed repair with recovery in, 385
Catheter tamponade, balloon, of major vascular wounds, 326
Central venous cannulation, prolonged, complications of, 600
Cerebral viability, electrocortigraphic limits of, during cardiac arrest and resuscitation, 728
Cervical rib resection, 623
Chemotherapy, systemic, in disseminated solid tumors, 169
Children
multiple hemangiomas of gastrointestinal tract in, 412
transmural and ulcerative colitis in, 30
Cholangitis, primary sclerosing, 743
Cholecystectomy, complications after, related to obesity, 87
Cholecystitis and triplication of gallbladder, 746
Cholecystoduodenocolic fistula, 349
Choledochoduodenostomy
as palliative procedure, 504
for malignant obstruction of common bile duct, 505
Cholelithiasis and triplication of gallbladder, 746
Cineradiographic analysis of incomplete emptying of esophagus, 229
Circulation, abdominal visceral, via superior mesenteric prosthesis, 736
Cirrhosis, hepatic, massive hemorrhage from esophageal varices due to, 241
Clamps
bowel stapling, in gastric resection, 628
noncrushing intestinal, 752
Coagulation profiles, preoperative, and posthemodilution cardiopulmonary bypass hemorrhage, 689
Coccygectomy for drainage of pelvic abscesses after pelvic wounds, 249
Colitis
transmural and ulcerative, in children, 30
ulcerative, and bile duct carcinoma, 39
Colon
perforated lesions of, with diffusing peritonitis, 374
right, carcinoma of, 522
Colonic diverticula, perforated, with adrenocorticosteroid therapy, 46
Colonic surgery, antibiotics in, 673
Colorectal cancer
obstructing, 552
treatment of, at Peter Bent Brigham Hospital (1960–1965), 398
Coma, nonketotic hyperosmolar, in postoperative patient, 698
Common bile duct
congenital cystic dilatation of, 68
malignant obstruction of, side to side choledochoduodenostomy for, 505
nontraumatic perforation of, 334
Congenital dilatation of biliary tract, 510
Coronary artery surgery, direct, for coronary artery occlusive disease, 478
Coronary embolization and vessel occlusion, 593
Corpus, carcinoma of, vaginal recurrence of, 473
Cortisone and wound infection, 569
Crohn's disease
complications of, 418
of duodenum, 184
Cystic dilatation, congenital, of common bile duct, 68
Cystic duct remnants, primary adenocarcinoma in, 610

Depilatory, preoperative preparation with, 251
Descending colon bypass and total esophagectomy for squamous cell carcinoma of esophagus, 527
Dexon, a polyglycolic acid synthetic absorbable suture, 561
Diabetes, femoral artery grafts in patients with, 223
Diabetic coma and hyperosmolarity, 698
Diaphragm, anomaly of right crus of, involving right renal artery, 351
Dietary protein in Eck fistula dogs, 107
Dilatation, congenital cystic, of common bile duct, 68
Diverticula, perforated colonic, with adrenocorticosteroid therapy, 46
Diverticulitis
mortality after surgery for, 702
of appendix, 706
perforated sigmoid, 536
surgery for, 379
Duct
common bile
congenital cystic dilatation of, 68
nontraumatic perforation of, 334
remnants, cystic, primary adenocarcinoma in, 610
Duodenal defects, repair of, with pedicle grafts of ileum, 206
Duodenal ulcer
stenosis with gastric dilatation, vagotomy and pyloroplasty in, 260
trends in surgery for, 255
Duodenum
carcinoid-islet cell tumors of, 195
Crohn's disease of, 184
Dysphagia after mastectomy, 368

Eck fistula, dietary protein in dogs with, 107
Education, surgical, with full-paying patients (E), 217
Elbow, ulnar nerve entrapment at, 355
Electrocortigraphic limits of cerebral viability during cardiac arrest and resuscitation, 728
Electrolyte and water changes in clean wounds, 460
Embolectomy, pulmonary, for massive embolization, 437
Embolism
air, as complication in parenteral alimentation, 614
post-traumatic fat, pathogenesis of, 712
pulmonary, 432
intracaval devices for prevention of, 442
Embolization, coronary, and vessel occlusion, 593
Enterocolitis, complications of, 418

Esophageal varices
bleeding, Boerema button in, 115
massive hemorrhage from, portasystemic shunts for, 241
Esophagectomy, total, and descending colon bypass for squamous cell carcinoma of esophagus, 527
Esophagitis and gastritis, postoperative, 694
Esophagocardiomyotomy for achalasia, failure of, 143
Esophagus
incomplete emptying of, simultaneous cineradiographic and manometric analysis of, 229
squamous cell carcinoma of, total esophagectomy and descending colon bypass for, 527
thoracic, segmental replacement of, with Silastic prosthesis, 238
Everting anastomoses, 52
Extrahepatic biliary tract anomaly, 741

Fat embolism, post-traumatic, pathogenesis of, 712
Fecal nitrogen and fat losses after vagotomy, 684
Femoral artery grafts, comparison of, in diabetic and nondiabetic patients, 223
Femoral hernia in men, 637
Fibrosarcoma, 586
Fistula
alimentary tract, nutritional management in, 174
brachial arteriovenous, neurovascular complications of, 716
cholecystoduodenocolic, 349
Eck, in dogs and dietary protein, 107
upper gastrointestinal, management of, with double lumen tube, 426
Fluid infusion, intravenous, in small bowel obstruction, 91
Fluid therapy, postoperative, history of, 311
Fundoplication for hiatal hernia-reflux complex, 403

Gallbladder, triplication of, with cholecystitis, cholelithiasis, and papillary adenocarcinoma, 746
Gastric dilatation, duodenal ulcer stenosis with, 260
Gastric mucosa, diffuse hemorrhage from, 129
Gastric resection, bowel stapling clamps in, 628
Gastric secretory studies after trauma and hemorrhagic shock, 134
Gastric ulcer
and vagotomy, 122
benign, vagotomy and pyloroplasty in, 119
Gastritis and esophagitis, postoperative, 694
Gastroduodenal ulcer, experimental, 650
Gastroesophageal reflux, surgery for prevention of, 548
Gastrointestinal fistula, upper, management of, with double lumen tube, 426
Gastrointestinal tract
inflammatory disease of, 30
multiple hemangiomas of, in children, 412
Grafts
femoral artery, comparison of, in diabetic and nondiabetic patients, 223
pedicle, of ileum for repair of duodenal defects, 206
Gunshot wounds, thoracoabdominal, 580

Halothane anesthesia, 620
Hand, lipomas of, 298
Healing, wound
and supplemental zinc, 661
and zinc deficiency, 566
Hemangiomas, multiple, of gastrointestinal tract in children, 412
Hemobilia, traumatic, surgery in, 328
Hemorrhage
diffuse, from gastric mucosa, 129
massive, from esophageal varices, portasystemic shunts for, 241
Hemorrhagic shock, gastric secretory and splanchnic blood flow studies after, 134
Hepatic artery
infusion for metastatic malignancy using percutaneously placed catheters, 160
interruption of, vascular implantation of liver after, 100
Hepatic cirrhosis, portasystemic shunts for massive hemorrhage from esophageal varices due to, 241
Hepatic lobectomy, 273
right, benign surgical jaundice after, for hepatoblastoma, 606
Hepatic veins, blunt injury to, with survival, 322
Hepatoblastoma, benign surgical jaundice after right hepatic lobectomy for, 606
Hernia
femoral, in men, 637
inguinal (E), 631, 634
Hernioplasty, preperitoneal versus classical, 641
Hiatal hernia-reflux complex, correction of, and results, 403
History of postoperative fluid therapy, 311
Hyperalimentation, parenteral, combined with chemotherapy in disseminated solid tumors, 169
Hyperosmolar coma, nonketotic, in postoperative patient, 698

Ileum
experimental obstruction of, water absorption in, 96
pedicle grafts of, for repair of duodenal defects, 206
Immunotherapy of cancer in man, 165
Imperforate anus, sacrococcygeal perineal approach to, 62
Infants, ruptured omphalocele in, total intravenous nutrition in, 454
Infarction, experimental myocardial, in calves, 593
Infection, wound
after preoperative depilatory versus razor preparation, 251
cortisone and vitamin A in, 569
Inguinal hernia repair
age and testis after resection of spermatic cord in, 634
resection of spermatic cord in (E), 631
Injury, blunt, to intrahepatic vena cava and hepatic veins with survival, 322
Internal mammary artery monitoring in infants undergoing cardiac surgery, 749
Intestinal alkaline phosphatase changes in bowel ischemia, 289
Intestinal clamp, noncrushing, 752
Intestinal secretion after intravenous fluid infusion in small bowel obstruction, 91
Intestinal transplantation, 150
Intravenous nutrition, total, in infants with ruptured omphalocele, 454
Intravenous oxygenation, pulmonary support by, 307

Intussusception in adults, 531
Inverting anastomoses, 52
Ischemia, bowel, changes in intestinal alkaline phosphatase in, 289
Islet cell tumors of duodenum, 195

Jaundice, benign surgical, after right hepatic lobectomy for hepatoblastoma, 606
Jejunal transplants, revascularized, pharyngoesophageal reconstruction with, 675
Jejunal ulcer, 541
Jejunoileal transplantation, 150

Kidney, pyonephrotic, rupture of, peritonitis after, 612
Knee, arterial reconstruction about and below, 392

Largactil therapy, small bowel complications due to, 346
Lipomas of upper extremity, 298
Liver
  actinomycosis of, 341
  metastatic tumor involving, hepatic artery infusion for, 160
  vascular implantation of, after interruption of portal vein and hepatic artery, 100
Lobectomy, hepatic, 273

Mandible, marginal resection of, in carcinoma of floor of mouth, 679
Manometric analysis of incomplete emptying of esophagus, 229
Mastectomy
  dysphagia after, 368
  radical, for breast cancer, 363
Megacolon, toxic, 283
Melanoma of extremities, isolation perfusion in, 583
Microangiography after vagotomy for gastric hemorrhage, 129
Mitral annulus, friable, suture technic for, 357
Monitoring, arterial, in infant during cardiac surgery, 749
Mortality after surgery for diverticulitis, 702
Mouth, carcinoma of floor of, marginal resection of mandible with reconstruction by tongue flap in, 679
Myocardial infarction, experimental, in calves, 593

Neck, penetrating wounds of, exploration in, 387
Neomycin-bacitracin surgical skin preparation, evaluation of, 557
Nephrostomy in renal transplantation, 467
Nerve
  compression in lipomas of upper extremity, 298
  ulnar, entrapment of, at elbow, 355
Neurovascular complications of brachial arteriovenous fistula, 716
New England Surgical Society, papers of, 359–501
  Presidential Address, 359
Nitrogen, fecal, and fat losses after vagotomy, 684
Nutrition, total intravenous, in infants with ruptured omphalocele, 454
Nutritional management in patients with fistulas of alimentary tract, 174

Obesity related to complications after cholecystectomy, 87
Obstructing colorectal carcinoma, 552
Obstruction
  malignant, of common bile duct, palliative choledochoduodenostomy for, 505
  of ileum, experimental, water absorption in, 96
  small bowel, intravenous fluid infusion in, 91
Occlusion, major vessel, and coronary embolization, 593
Occlusive disease of coronary artery, direct coronary artery
    surgery for, 478
Omphalocele, ruptured, in infants, total intravenous nutrition in, 454
Oxygenation, intravenous, pulmonary support by, 307

Pancreas, carcinoma of, palliative surgery for, 271
Pancreatic reflux, papillary integrity in, 13
Pancreatic trauma, diagnosis and treatment of, 20
Pancreatitis, fatal acute, 16
Papillary adenocarcinoma and triplication of gallbladder, 746
Parenteral alimentation, air embolism as complication in, 614
Pedicle grafts of ileum for repair of duodenal defects, 206
Pelvic abscesses, drainage of, coccygectomy for, 249
Perforated sigmoid diverticulitis, primary versus delayed resection for, 536
Perforation, nontraumatic, of common duct, 334
Perfusion, isolation, 583
Peripheral venous thrombophlebitis during pregnancy, 449
Peritonitis
  after spontaneous rupture of pyonephrotic kidney into peritoneal cavity, 612
  diffusing, perforated lesions of colon with, 374
Pharyngoesophageal reconstruction with revascularized jejunal transplants, 675
Pheochromocytoma and thyroid carcinoma with bilateral breast carcinoma, 732
pHisoHex in contaminated wounds, 572
Polyglycolic acid synthetic absorbable sutures, 561, 656
Popliteal artery entrapment, 739
Portacaval shunt, transjugular intrahepatic, 588
Portal vein, interruption of, vascular implantation of liver after, 100
Portasystemic shunts
  for massive hemorrhage from esophageal varices, 241
  survival after, 490
Pregnancy, peripheral venous thrombophlebitis during, 449
Preoperative preparation, depilatory versus razor in, 251
Presidential address (Society for Surgery of the Alimentary Tract), 3
Primary sclerosing cholangitis, 743
Prosthesis
  Silastic, segmental replacement of thoracic esophagus with, 238
  superior mesenteric, abdominal visceral circulation via, 736
Protein, dietary, in Eck fistula dogs, 107
Puestow-Olander tube, double lumen, in upper gastrointestinal fistula, 426
Pulmonary embolectomy for massive embolization, 437
Pulmonary embolism
  clinical study of, 432

Pulmonary embolism
intracaval devices for prevention of, 442
Pulmonary support by intravenous oxygenation, 307
Pyloroplasty and vagotomy in gastric ulcer, 119, 122

Razor versus depilatory in preoperative preparation, 251
Reconstruction
arterial, of knee, 392
by tongue flap in carcinoma of floor of mouth, 679
pharyngoesophageal, with revascularized jejunal transplants, 675
Reflux alkali gastritis and esophagitis, postoperative, 694
Reflux
gastroesophageal, surgery for prevention of, 548
pancreatic, papillary integrity in, 13
Renal artery, right, anomaly of right crus of diaphragm involving, 351
Renal transplantation, nephrostomy in, 467
Revascularized jejunal transplants, pharyngoesophageal reconstruction with, 675
Rib resection, cervical, 623
Right colon, carcinoma of, 522
Rupture of pyonephrotic kidney, peritonitis after, 612
Rural sugical practice, biliary tract operations in, 518

Sacrococcygeal perineal approach to imperforate anus, 62
Sclerosing cholangitis, primary, 743
Septal defects, atrial
repair of, 724
surgery for, 485
Shock, hemorrhagic, gastric secretory and splanchnic blood flow studies after, 134
Shunts
portasystemic, for massive hemorrhage from esophagal varices, 241
survival after, 490
transjugular intrahepatic portacaval, 588
Sigmoid, perforated diverticulitis of, 536
Sigmoid volvulus, mortality in, 293
Silastic prosthesis, segmental replacement of thoracic esophagus with, 238
Silicone rubber tubing, capillary, intravenous oxygenation through, 307
Silver nitrate cream, 0.5 per cent, for burns, 576
Sipple's syndrome with bilateral breast carcinoma, 732
Skin preparation, surgical, bacitracin-neomycin as, 557
Small bowel
complications due to largactil therapy, 346
obstruction, intravenous fluid infusion in, 91
resection, surgery after (E), 213
Socioeconomic scene, changing, 359
Spermatic cord
resection of, in inguinal hernia repair (E), 631
age and testis after, 634
Splanchnic blood flow studies after trauma and hemorrhagic shock, 134
Squamous cell carcinoma of esophagus, total esophagectomy and descending colon bypass for, 527
Stapling clamps, bowel, in gastric resection, 628
Stress ulcer syndrome, 644
Surgery
after massive small bowel resection (E), 213
for duodenal ulcer, trends in, 255
palliative, for carcinoma of pancreas, 271
Surgical challenges, clinical and philosophical, 3
Surgical education with full-paying patients (E), 217
Surgical judgment, teaching of, 220
Sutures, polyglycolic acid synthetic absorbable, 561, 656
Systemic chemotherapy in disseminated solid tumors, 169

Tamponade, balloon catheter, of major vascular wounds, 326
Teaching of surgical judgment, 220
Teflon cylinders, surgically implanted, to determine wound fluid zinc levels during tissue repair, 665
Testis after resection of spermatic cord in inguinal hernia repair, 634
Thoracic esophagus, segmental replacement of, with Silastic prosthesis, 238
Thoracoabdominal gunshot wounds, treatment of, in civilian practice, 580
Thrombophlebitis, peripheral venous, during pregnancy, 449
Thymoma, 710
Thyroid carcinoma and pheochromocytoma with bilateral breast carcinoma, 732
Toxic megacolon, 283
Transection, bullet, of both carotid arteries, 385
Transmural colitis in children, 30
Transplantation
intestinal, 150
renal, nephrostomy in, 467
Transplants, revascularized jejunal, pharyngoesophageal reconstruction with, 675
Trauma
abdominal (E), 503
fat embolism after, 712
gastric secretory and splanchnic blood flow studies after, 134
pancreatic, diagnosis and treatment of, 20
Traumatic hemobilia, surgery in, 328
Tuberculosis and carcinoma of breast, coexistence of, 338

Ulcer
duodenal, trends in surgery for, 255
experimental gastroduodenal, 650
gastric
and vagotomy, 122
vagotomy and pyloroplasty in, 119
jejunal, 541
stenosis, duodenal, with gastric dilatation, vagotomy and pyloroplasty in, 260
stress, 644
Ulcerative colitis
and bile duct carcinoma, 39
in children, 30
Ulnar nerve entrapment at elbow, 355

Vaginal recurrence of carcinoma of corpus, 473
Vagotomy
and gastric ulcer, 122
and pyloroplasty
in benign gastric ulcer, 119
in duodenal ulcer stenosis with gastric dilatation, 260
-antrectomy and vagotomy-pyloroplasty controversy, possible solution to (E), 215

XUM

Vagotomy
in gastric hemorrhage, 129
selective versus truncal, fecal nitrogen and fat losses after, 684
Varices, esophageal, massive hemorrhage from, portasystemic shunts for, 241
Vascular implantation of liver after interruption of portal vein and hepatic artery, 100
Vascular wounds, major, balloon catheter tamponade of, 326
Veins, hepatic, blunt injury to, with survival, 322
Vena cava, intrahepatic, blunt injury to, with survival, 322
Venous cannulation, prolonged central, complications of, 600
Venous thrombophlebitis, peripheral, during pregnancy, 449
Ventricular aneurysms, surgery for, 720
Vitamin A and wound infection, 569
Volvulus, sigmoid, mortality in, 293

Water absorption in experimental obstruction of ileum, 96
Water and electrolyte changes in clean wounds, 460
Wound fluid zinc levels during tissue repair, 665
Wound healing
and supplemental zinc, 661
and zinc deficiency, 566
Wound infection
after preoperative depilatory versus razor preparation, 251
cortisone and vitamin A in, 569
Wound kinetics, 460
Wounds
contaminated
pHisoHex and betadine surgical scrub solutions in, 572
scrubbing and antibiotics in, 668
major vascular, balloon catheter tamponade of, 326
pelvic, coccygectomy for drainage of pelvic abscesses after, 249
penetrating, of neck, exploration in, 387
thoracoabdominal gunshot, 580
Wrist, lipomas of, 298

Zinc
deficiency and wound-healing in rats, 566
levels in wound fluid during tissue repair, 665
supplemental, and wound healing, 661

The American Journal of Surgery

EDITOR

ROBERT M. ZOLLINGER, MD, *Columbus, Ohio*

ADVISORY BOARD

W. GERALD AUSTEN, MD, *Boston;* JOHN M. BEAL, MD, *Chicago;* B. MARDEN BLACK, MD, *Rochester, Minn;* LYMAN A. BREWER, III, MD, *Loma Linda;* JOHN J. BYRNE, MD, *Boston;* CHARLES GARDNER CHILD, 3RD, MD, *Ann Arbor;* RANDOLPH LEE CLARK, JR, MD, *Houston;* H. WILLIAM CLATWORTHY, JR, MD, *Columbus;* ISIDORE COHN, JR, MD, *New Orleans;* WILLIAM R. DRUCKER, MD, *Toronto;* J. ENGLEBERT DUNPHY, MD, *San Francisco;* PAUL A. EBERT, MD, *New York;* RICHARD H. EGDAHL, MD, *Boston;* DANIEL W. ELLIOTT, MD, *Pittsburgh;* JUDAH FOLKMAN, MD, *Boston;* MAX R. GASPAR, MD, *Long Beach;* D. P. HALL, MD, *Louisville;* JAMES D. HARDY, MD, *Jackson;* J. HARTWELL HARRISON, MD, *Boston;* STANLEY O. HOERR, MD, *Cleveland;* COLIN T. HOWE, BM, BCH, *London, England;* CHARLES A. HUFNAGEL, MD, *Washington, DC;* GEORGE L. JORDAN, JR, MD, *Houston;* ARNOLD J. KREMEN, MD, *Minneapolis;* K. ALVIN MERENDINO, MD, *Seattle;* WILLIAM H. MULLER, JR, MD, *Charlottesville;* JOHN S. NAJARIAN, MD, *Minneapolis;* SIDNEY W. NELSON, MD, *Columbus;* ERLE E. PEACOCK, JR, MD, *Tucson;* EDGAR J. POTH, MD, *Galveston;* THOMAS B. QUIGLEY, MD, *Boston;* VICTOR RICHARDS, MD, *San Francisco;* JOHN A. SCHILLING, MD, *Oklahoma City;* TOM SHIRES, MD, *Dallas;* ROBERT TURELL, MD, *New York;* ROGER D. WILLIAMS, MD, *Miami;* GEORGE D. ZUIDEMA, MD, *Baltimore*

VOLUME 121

1971

Published by

THE REUBEN H. DONNELLEY CORPORATION

466 LEXINGTON AVENUE, NEW YORK, NEW YORK 10017

MCMLXXI

XUM

Contents of Volume 121

January 1971

PAPERS OF THE SOCIETY FOR SURGERY OF THE ALIMENTARY TRACT

3 **The Exciting Challenges (Vistas): Clinical and Philosophical** . . . . . James D. Hardy

13 **Papillary Integrity as a Factor in Pancreatic Reflux** . . . . . Ernest F. Rosato, Jeffrey C. Oram-Smith, Howard A. Reber, Bernard Czernobilsky, Francis E. Rosato

16 **Fatal Acute Pancreatitis. A Clinicopathologic Analysis** . . . . . James Whalen, Benjamin Rush, Edward Albano, Eric Lazaro

20 **Diagnosis and Treatment of Pancreatic Trauma** . . . . . Robert D. Bach, Charles F. Frey

30 **Inflammatory Disease of the Lower Gastrointestinal Tract in Children** . . . . Paul M. James, Jr, Felda Hightower, Richard T. Myers, Alexander Nedwich

39 **Ulcerative Colitis and Carcinoma of the Bile Ducts.** . . . . . Charles F. Converse, James W. Reagan, Jerome J. DeCosse

46 **Acute Perforation of Colonic Diverticula Associated with Prolonged Adrenocorticosteroid Therapy** . . . . . Jerome W. Canter, Paul E. Shorb

52 **Everting and Inverting Anastomoses. An Experimental Study of Comparative Safety** . . . . . Harry B. Abramowitz, Harvey R. Butcher, Jr

57 **Elevated Serum Alkaline Phosphatase Levels after the Administration of Certain Preparations of Human Albumin** . . . . . Julius A. Mackie, Jr, Dean A. Arvan, James L. Mullen, Jr, Howard M. Rawnsley

62 **Sacrococcygeal Perineal Approach to Imperforate Anus. The Stephens Procedure** . . . . . Richard C. Miller, Robert J. Izant, Jr

68 **Long-Term Follow-Up Study of Patients with Congenital Cystic Dilatation of the Common Bile Duct** . . . . . Hugh H. Trout, III, William P. Longmire, Jr

87 **Relationship of Obesity to Postoperative Complications after Cholecystectomy** . . . L. B. Pemberton, W. G. Manax

91 **Intestinal Secretion after Intravenous Fluid Infusion in Small Bowel Obstruction** . . . David T. W. Sung, Lester F. Williams, Jr

96 **Water Absorption in Experimental Closed Segment Obstruction of the Ileum in Man** . . . . . Hastings K. Wright, John J. O'Brien, M. David Tilson

100 **Direct Vascular Implantation of Liver for Hepatic Regeneration after Interruption of the Portal Vein and Hepatic Artery** . . . . . Harry S. Goldsmith, Jose Castillo

February 1971

PAPERS OF THE SOCIETY FOR SURGERY OF THE ALIMENTARY TRACT (Continued)

107 **Effect of Dietary Protein on Symptoms and Survival in Dogs with an Eck Fistula** Robert E. Condon

115 **Pilot Experience with the "Boerema Button" in Emergency Management of Bleeding Esophageal Varices** . . . . . Gerard P. Burns, Worthington G. Schenk, Jr

119 **Clinical Trial of Vagotomy and Pyloroplasty in the Treatment of Benign Gastric Ulcer** . . . . . John L. Sawyers, H. W. Scott, Jr, Charles Graham

122 **Vagotomy and the Gastric Ulcer** . . . . . Richard O. Kraft, James Myers, Stephen Overton, William J. Fry

129 **Surgical Management of Diffuse Hemorrhage from Gastric Mucosa** . . . . . Teruo Matsumoto, C. C. Wolferth, Jr, M. F. Hayes, Jr

134 **Gastric Secretory and Splanchnic Blood Flow Studies in Man after Severe Trauma and Hemorrhagic Shock** . . . . . Robert N. McClelland, G. Tom Shires, Morton Prager

143 **A Study of the Causes of Failure of Esophagocardiomyotomy for Achalasia** . . . Paul Nemir, Jr, Manoucher Fallahnejad, Bireswar Bose, David Jacobowitz, A. S. Frobese, H. R. Hawthorne

150 **Intestinal Transplantation: Laboratory Experience and Report of a Clinical Case** Fikri Alican, James D. Hardy, Mukadder Cayirli, Joseph E. Varner, Patricia C. Moynihan, M. D. Turner, Pandeli Anas

160 **Hepatic Artery Infusion for Metastatic Malignancy Using Percutaneously Placed Catheters** . . . . . William H. Massey, William S. Fletcher, Melvin P. Judkins, Daniel L. Dennis

165 **Immunotherapy of Cancer in Man. VII. Studies of Patients with Cancer of the Alimentary Tract** . . . . . Loren J. Humphrey, Douglas R. Murray, O. Robert Boehm, William R. Jewell, Ward O. Griffin, Jr

169 **Combined Parenteral Hyperalimentation and Chemotherapy in the Treatment of Disseminated Solid Tumors** . . . . . Gordon F. Schwartz, Harvey L. Green, Michael L. Bendon, William P. Graham, III, William S. Blakemore

174 **Use of a Chemically Defined, Liquid, Elemental Diet for Nutritional Management of Fistulas of the Alimentary Tract** . . . . . Katherine D. Bury, R. V. Stephens, Henry T. Randall

184 **Crohn's Disease of the Duodenum. A Report and Analysis of Eleven New Cases** Leslie Wise, Michael Kyriakos, Allen McCown, Walter F. Ballinger

195 **Carcinoid-Islet Cell Tumors of the Duodenum. Report of Twenty-One Cases.** . Rudolph F. Weichert, III, Lawrence M. Roth, Edward T. Krementz, Robert L. Hewitt, Theodore Drapanas

206 **Pedicle Grafts of Ileum for the Repair of Large Duodenal Defects** . . . . . Barry J. Seidel, Frank E. Maddison, William E. Evans

209 **Books Received for Review**

March 1971

213 **Surgery after Massive Small Bowel Resection** . . . . . John D. Burrington

215 **A Possible Solution to the Vagotomy-Antrectomy and Vagotomy-Pyloroplasty Controversy** . . . . . J. L. Herrington, Jr

217 **Surgical Education with Full-Paying Patients.** . . . . . Victor Richards

220 **The Teaching of Surgical Judgment.** . . . . . Robert M. Bartlett

XUM

Contents

223	A Comparison of Femoral Artery Grafts in Diabetic and Nondiabetic Patients	Sergio Stipa Frank C. Wheelock, Jr
229	Simultaneous Cineradiographic and Manometric Analysis of Incomplete Emptying of the Esophagus	Enrique H. Longhi Paul H. Jordan, Jr
238	Segmental Replacement of the Thoracic Esophagus with a Silastic Prosthesis	Kendrick Watanabe James B. D. Mark
241	Portasystemic Shunts in the Management of Massive Hemorrhage from Esophageal Varices Due to Cirrhosis of the Liver	Jere W. Lord, Jr Giuseppe Rossi Maurizio Daliana Louis M. Rosati
249	Coccygectomy for Drainage of Pelvic Abscesses after Pelvic Wounds	Frederick G. Winegarner
251	Wound Infections after Preoperative Depilatory versus Razor Preparation	Richard Seropian Benedict M. Reynolds
255	Trends in Surgery for Duodenal Ulcer	John Sonneland
260	Duodenal Ulcer Stenosis with Gastric Dilatation. Treatment by Vagotomy and Pyloroplasty	N. Parke Davis J. Alexander Williams
263	Carcinoma of the Ampulla of Vater	Joseph L. Ponka N. S. Uthappa
271	Palliative Surgery for Carcinoma of the Pancreas	Norton A. Pope Jay C. Fish
273	Hepatic Lobectomy	John L. Ochsner Barry E. Meyers Alton Ochsner
283	Toxic Megacolon. A Surgical Disease	Richard L. Collier John H. Wylie, Jr Jorge Gomez
289	Changes in Intestinal Alkaline Phosphatase in Bowel Ischemia	Francis E. Rosato Leo Lazitin Leonard D. Miller K. C. Tsou
293	Sigmoid Volvulus. An Examination of the Mortality	S. Timothy String Jerome J. DeCosse
298	Lipomas of the Upper Extremity. A Series of Fifteen Tumors in the Hand and Wrist and Six Tumors Causing Nerve Compression	George S. Phalen James I. Kendrick Juan M. Rodriguez
307	Pulmonary Support by Intravenous Oxygenation through Capillary Silicone Rubber Tubing	John A. Awad Wilfried M. Caron Andre Brassard Camille Cadrin
311	Excerpts from the History of Postoperative Fluid Therapy	Louis R. Mengoli
322	Blunt Injury to Intrahepatic Vena Cava and Hepatic Veins with Survival	Rudolph F. Weichert, III Robert L. Hewitt Theodore Drapanas
326	Balloon Catheter Tamponade of Major Vascular Wounds	Karl Smiley Malcolm O. Perry
328	Surgical Management of Traumatic Hemobilia	George F. Reinhardt Charles A. Hubay
334	Nontraumatic Perforation of the Common Duct.	Neil G. Steinhoff George L. Tucker
338	The Coexistence of Carcinoma and Tuberculosis of the Breast and Axillary Lymph Nodes	Robert E. Miller Peter F. Salomon John P. West
341	Actinomycosis of the Liver. Report of a Case with Special Reference to Liver Function Tests	Takashi Yamada Akiyoshi Sakai Shin Tonouchi Kenkichi Kawashima

346 Small Bowel Complications Probably due to Largactil Therapy . . . . . Itamar Kott, Israel Urca

349 Cholecystoduodenocolic Fistula . . . . . Wesley S. Wise, Fred T. Caldwell

351 Anomaly of the Right Crus of the Diaphragm Involving the Right Renal Artery . Donald C. Martin, Jr

355 Entrapment of the Ulnar Nerve at the Elbow. . . . . K. C. Ho, Leonard Marmor

357 Suture Technic for the Friable Mitral Annulus . . . . . Willard M. Daggett, Eldred D. Mundth, Mortimer J. Buckley, W. Gerald Austen

April 1971

PAPERS OF THE NEW ENGLAND SURGICAL SOCIETY

359 The Changing Socioeconomic Scene. . . . . Clinton R. Mullins

363 Characteristics of Ten Year Survivors after Radical Mastectomy for Cancer of the Breast . . . . . T. J. Anglem, R. E. Leber

368 Postmastectomy Dysphagia . . . . . Eugene G. Laforet, Edward S. Kondi

374 Surgical Management of Perforated Lesions of the Colon with Diffusing Peritonitis . . . . . Charles S. Whelan, Joseph F. Furcinitti, Carlos Lavarreda

379 Surgical Treatment of Diverticulitis . . . . . John J. Byrne, Edward I. Garick

385 Bullet Transection of Both Carotid Arteries. Delayed Repair with Recovery . . Thomas S. Risley, William W. McClerkin

387 Penetrating Wounds of the Neck. Re-emphasis of the Need for Prompt Exploration . . . . . C. Ashworth, L. F. Williams, J. J. Byrne

392 Arterial Reconstruction About and Below the Knee: Another Look . . . . . Dominic A. DeLaurentis, Paul Friedmann

398 Results of Treatment of Colorectal Cancer at the Peter Bent Brigham Hospital from 1960 to 1965 . . . . . Thomas W. Botsford, Menelaos R. Aliapoulios, Frederick S. Fogelson

403 The Hiatal Hernia-Reflux Complex. Current Approaches to Correction and Evaluation of Results . . . . . John M. Moran, C. Owe Pihl, R. A. Norton, H. F. Rheinlander

412 Multiple Hemangiomas of the Gastrointestinal Tract in Children . . . . . R. W. Paul Mellish

418 The Complications of Enterocolitis . . . . . Kenneth S. Latchis, Chadalawada S. Rao, Bentley P. Colcock

426 Management of Upper Gastrointestinal Fistula with a Double Lumen Tube . . Eugene V. Tanski, Rodger E. Weismann

432 Clinical Study of Pulmonary Embolism. . . . . Mohamed Kakvan, Susumu Masuoka

437 Pulmonary Embolectomy for Massive Embolization . . . . . Robert L. Berger

442 Intracaval Devices for the Prevention of Pulmonary Embolism . . . . . Samir R. Neimat, Donald C. Nabseth

449 Peripheral Venous Thrombophlebitis during Pregnancy . . . . . Nelson Gürll, Zolman Helfand, Edwin F. Salzman, William Silen

454 Total Intravenous Nutrition. An Adjunct to the Management of Infants with a Ruptured Omphalocele . . . . . Robert M. Filler, Angelo J. Eraklis, John B. Das, Samuel R. Schuster

XUM

Contents

460 **Wound Kinetics: Water and Electrolyte Changes from Zero to Sixty Days in Clean Wounds** . . . . . Michael A. Rocchio, Henry T. Randall

467 **Nephrostomy in Renal Transplantation** . . . . . C. A. Olsson, J. A. Mannick, G. W. Schmitt, B. A. Idelson, L. F. Williams, Jr, J. Lemann, Jr, J. T. Harrington, D. C. Nabseth

473 **Vaginal Recurrence of Carcinoma of the Corpus. Management and Prevention** Francis M. Ingersoll

478 **Direct Coronary Artery Surgery for Coronary Artery Occlusive Disease** . . . Eldred D. Mundth, J. Warren Harthorne, Mortimer J. Buckley, Willard M. Daggett, W. Gerald Austen

485 **Surgical Treatment of Atrial Septal Defect. Analysis of 150 Corrective Operations** H. C. Stansel, Jr, N. S. Talner, M. M. Deren, D. Van Heeckeren, W. W. L. Glenn

490 **Quantity and Quality of Survival after Portosystemic Shunts** . . . . . James H. Foster, Lee H. Ellison, Thomas J. Donovan, Arthur Anderson

May 1971

503 **Abdominal Trauma: Texas Style.** . . . . . George J. Jordan, Jr

504 **Side to Side Choledochoduodenostomy. A Neglected Palliative Procedure** . . Malcolm Stuart, Stanley O. Hoerr

505 **Palliation of Malignant Obstruction of the Common Bile Duct by Side to Side Choledochoduodenostomy** . . . . . Malcolm Stuart, T. Keo, Robert E. Hermann, Stanley O. Hoerr

510 **Congenital Dilatation of the Biliary Tract** . . . . . Gabriel A. Lorenzo, Randolph W. Seed, John M. Beal

518 **Biliary Tract Operations in a Rural Surgical Practice. A Review of 350 Operations** George L. Watkins

522 **Carcinoma of the Right Colon** . . . . . Robert W. Buxton, Robert M. Beazley

527 **Total Esophagectomy and Descending Colon Bypass for Squamous Cell Carcinoma of the Esophagus.** . . . . . Ronald G. Vincent, John H. Webster

531 **Intussusception in Adults. Review of 160 Cases** . . . . . David Weilbaecher, John A. Bolin, David Hearn, William Ogden, II

536 **Perforated Sigmoid Diverticulitis. Appraisal of Primary versus Delayed Resection** . . . . . Donald W. Miller, Jr, Walter A. Wichern, Jr

541 **The Continuing Problem of Jejunal Ulcer.** . . . . . W. P. Small, A. N. Smith, C. V. Ruckley, C. W. A. Falconer, W. Sircus, J. P. A. McManus, Sir John Bruce

548 **Surgical Procedure to Prevent Gastroesophageal Reflux.** . . . . . Francisco Hidalgo, Antonio Rivera A., Josefina Portilla A.

552 **Correlation of the Prognosis of Obstructing Colorectal Carcinoma with Clinical and Pathologic Variables** . . . . . Jerry J. Ragland, Alan M. Londe, John S. Spratt, Jr

557 **Evaluation of a Bacitracin-Neomycin Surgical Skin Preparation** . . . . . Richard P. Saik, Carol A. Walz, Jonathan E. Rhoads

561 **Polyglycolic Acid Synthetic Absorbable Sutures** . . . . . John B. Eilert, Perry Binder, Peter W. McKinney, John M. Beal, Julius Conn, Jr

566 **Effect of Zinc Deficiency on Wound-Healing in Rats** . . . . . D. Oberleas, J. K. Seymour, R. Lenaghan, J. Hovanesian, R. F. Wilson, A. S. Prasad

569 **Effect of Cortisone and Vitamin A on Wound Infection** . . . . . Frederick O. Stephens, Thomas K. Hunt, Ernest Jawetz, Minetta Sonne, J. Englebert Dunphy

572 **Studies in the Management of the Contaminated Wound. V. An Assessment of the Effectiveness of pHisoHex and Betadine Surgical Scrub Solutions** . . . Joseph Custer, Richard F. Edlich, Margaret Prusak, Joan Madden, Patricia Panek, Owen H. Wangensteen

576 **Use of 0.5 Per cent Silver Nitrate Cream for Burns** . . . . . Ronald L. Bouterie, Donald H. McLean

580 **Treatment of Thoracoabdominal Gunshot Wounds in Civilian Practice. Experience with Forty-Four Cases** . . . . . Alonzo R. Borja, Herbert Ransdell

583 **Isolation Perfusion. An Adjunct to Surgical Excision in the Primary Treatment of Melanoma of the Extremities** . . . . . E. Meredith Alrich, J. Laurence Manwaring, J. Shelton Horsley, III

586 **Fibrosarcoma. Report of Sixty-Four Cases** . . . . . L. S. Bizer

588 **Transjugular Intrahepatic Portacaval Shunt. An Experimental Work** . . . . J. Rösch, W. Hanafee, H. Snow, M. Barenfus, R. Gray

593 **Experimental Myocardial Infarction in Calves. Coronary Embolization and Vessel Occlusion** . . . . . William E. Elzinga, Robert B. Schultz

600 **Morbid and Mortal Complications Associated with Prolonged Central Venous Cannulation. Awareness, Recognition, and Prevention** . . . . . John H. Henzel, M. S. DeWeese

606 **Benign Surgical Jaundice after Right Hepatic Lobectomy for Hepatoblastoma** . . Howard A. Weinberger, Morrison S. Levbarg

610 **Primary Adenocarcinoma in Cystic Duct Remnants** . . . . . John A. Dixon, Chris Christensen

612 **Peritonitis after Spontaneous Rupture of a Pyonephrotic Kidney into a Peritoneal Cavity** . . . . . P. Balas, T. Segditsas, D. Antonopoulos

614 **Air Embolism as a Complication During Parenteral Alimentation** . . . . . Harvey L. Green, Paul Nemir, Jr

617 **Rest Pain of the Buttock after Aortofemoral Bypass Procedure. Report of an Unusual Case** . . . . . F. K. Merkel, J. S. Najarian

620 **Halothane Anesthesia. Unsuspected Danger for the Surgical Patient** . . . . John N. Withers

623 **A Technic for Cervical Rib Resection** . . . . . Clarence J. Schein

XUM

Contents

628 **Improved Technics Using the Bowel Stapling Clamps in Nineteen Consecutive Gastric Resections** . . . . . Roy W. Dickman

June 1971

631 **Resection of the Spermatic Cord in Inguinal Hernia Repair** . . . . . J. Hartwell Harrison

634 **Age and the Testis after Resection of the Spermatic Cord in the Repair of Inguinal Hernia** . . . . . Carl J. Heifetz

637 **Femoral Hernia in Men** . . . . . Frank Glassow

641 **Preperitoneal versus Classical Hernioplasty** . . . . . Julius S. Margoles, Richard A. Braun

644 **The Stress Ulcer Syndrome. A Clinical and Pathologic Review** . . . . . Fred A. Crawford, John W. Hammon, Jr, William W. Shingleton

650 **Experimental Gastroduodenal Ulcer** . . . . . Vladimír Vojtíšek, Václav Jelínek, Alena Chlumská

656 **Clinical Use of Polyglycolic Acid Polymer as a New Absorbable Synthetic Suture** . . . Herbert Dardik, Irving Dardik, Harold Laufman

661 **Effect of Supplemental Zinc on Wound Healing in Rats** . . . . . Edward P. Quarantillo, Jr

665 **Wound Fluid Zinc Levels during Tissue Repair. Sequential Determination by Means of Surgically Implanted Teflon Cylinders** . . . . . E. L. Lichti, M. Turner, J. H. Henzel, M. S. Deweese

668 **Studies in the Management of the Contaminated Wound. VI. The Therapeutic Value of Gentle Scrubbing in Prolonging the Limited Period of Effectiveness of Antibiotics in Contaminated Wounds** . . . . . Richard F. Edlich, Joan E. Madden, Margaret Prusak, Patricia Panek, Jane Thul, Owen H. Wangensteen

673 **Antibiotics in Colonic Surgery** . . . . . Charles D. Hafner

675 **Pharyngoesophageal Reconstruction with Revascularized Jejunal Transplants** . . . Calvin R. Peters, Duncan M. McKee, B. Eugene Berry

679 **Marginal Resection of the Mandible with Reconstruction by Tongue Flap for Carcinoma of the Floor of the Mouth** . . . . . Max L. Som, Moses Nussbaum

684 **Selective versus Truncal Vagotomy. A Comprehensive Study of Fecal Nitrogen and Fat Losses** . . . . . Robert W. Crow, William J. Schulte, Edwin H. Ellison, Daniel H. Winship

689 **Preoperative Coagulation Profiles and Posthemodilution Cardiopulmonary Bypass Hemorrhage** . . . . . Raymond A. Dieter, Jr, William E. Neville, Roque Pifarre, Monohar Jasuja

694 **Postoperative Reflux Alkali Gastritis and Esophagitis** . . . . . Sanford Mackman, Kenneth E. Lemmer, John F. Morrissey

698 **Nonketotic Hyperosmolar Coma in the Postoperative Patient** . . . . . Adrian J. Greenstein, David A. Dreiling

702 **Mortality of the Surgical Treatment of Diverticulitis** . . . . . Thomas W. Botsford, Robert M. Zollinger, Jr, Richard Hicks

706 **Diverticulitis of the Appendix. Report of Sixty-One Cases** . . . . . Luc Deschênes, Jean Couture, Robert Garneau

710 **Thymoma** . . . . . James W. Kilman, Karl P. Klassen

712	**Pathogenesis of Post-Traumatic Fat Embolism**	J. Kerstell
716	**Neurovascular Complications of Brachial Arteriovenous Fistula**	Nathaniel Matolo Biman Kastagir Lawrence E. Stevens S. Chrysanthakopoulos Dean H. Weaver Horst Klinkman
720	**Surgical Treatment of Ventricular Aneurysms**	Herbert I. Machleder Donald G. Mulder
724	**Long-Term Results of Repair of Atrial Septal Defects**	William A. Reed Marvin I. Dunn
728	**Electrocortigraphic Limits of Cerebral Viability During Cardiac Arrest and Resuscitation**	D. Yashon F. C. Wagner, Jr L. C. Massopust, Jr L. R. Wolin R. J. White
732	**Sipple's Syndrome (Pheochromocytoma and Thyroid Carcinoma) with Bilateral Breast Carcinoma**	John B. Lima P. Dunlap Smith
736	**Status of Abdominal Visceral Circulation via Superior Mesenteric Prosthesis**	Murray S. Jaffe
739	**Acute Popliteal Artery Entrapment**	William E. Evans Victor Bernhard
741	**An Extrahepatic Biliary Tract Anomaly. Suggested Technic for Early Identification at Surgery**	Charles P. Shoemaker, Jr John C. Baxter
743	**Primary Sclerosing Cholangitis**	Allan W. Perry Eiming Djang George Kafrouni Louis G. Ludington
746	**Triplication of the Gallbladder with Cholecystitis, Cholelithiasis, and Papillary Adenocarcinoma**	Werner J. Roeder Walter L. Mersheimer Kirk K. Kazarian
749	**Arterial Monitoring of the Infant Undergoing Cardiac Surgery. Technic of Internal Mammary Artery Monitoring**	Daniel W. Van Heeckeren H. C. Stansel, Jr
752	**A New Noncrushing Intestinal Clamp**	Harold Masters

XUM

COPYRIGHT © 1971
BY THE REUBEN H. DONNELLEY CORPORATION

All rights reserved. No parts of the contents of this publication may be reproduced or distributed without the prior written consent of the publisher.

Printed in the United States of America

Author and Subject Index

XUM

Author Index, Volume 122

A

Ackerman NB, 662, 669
Adam YG, 726
Adams DR, 430
Adler H, 115
Ahlvin RC, 378
Ahrend TR, 612
Akcay F, 662
Albo D Jr, 678
Almersjö O, 91
Andersson A, 3
Arbegast NR, 584
Arons MS, 770
Asuncion ZG, 109
Athanassiades S, 58
Attie JN, 464

B

Baba S, 53
Bahnson HT, 549
Baker HW, 433
Baker JW, 137
Baker LH, 528
Ballantyne AJ, 482
Barber RE, 260
Barker WF, 183, 513
Beahrs OH, 472
Beall AC Jr, 584
Belzer FO, 275
Bengmark S, 91
Bennett SH, 451
Benoit D, 365
Berard P, 802
Berci G, 567
Bergdahl L, 3
Berkas E, 374
Berne CJ, 16
Bernhard VM, 555
Bernstein RG, 115
Berry R, 408
Bigelow JC, 164
Bill AH, 142
Black HC Jr, 117
Blaisdell FW, 148, 260
Blichert-Toft M, 123
Block MA, 458
Boquist L, 3
Borja AR, 81
Bowser B, 655
Boyne PV, 748
Branson BW, 269
Bravo A, 408
Brown HP, 421
Brown RW, 576
Buan R, 112
Buchin R, 104
Bull JG Jr, 169
Busuttil RW, 371
Byrne JJ, 295

C

Caldwell FT, 655
Caldwell JL Jr, 95
Canizaro PC, 494
Caron AS, 719
Casali RE, 655
Cerise EJ, 371
Chambers RG, 744
Chang C-H, 129
Chen K-M, 129
Chernox MS, 674
Chretien PB, 741
Clark DA, 192
Coalson JJ, 616
Coe JD, 683
Cohen A, 226, 528
Colcock BP, 296
Cole BC, 829
Collins C, 70
Collins FB, 560
Connolly JE, 243
Cooperman AM, 797
Cuilleret J, 802
Cunningham JN Jr, 650

D

Daily PO, 231
Davies NP, 368
Davis WB, 552
Day WC, 622
deLorimier AA, 275
Dennis DL, 209
Derrick JR, 576
Devine J Jr, 763
Dickinson WE, 418
Dickman M, 622
Diffenbaugh WF, 381
Dillon ML, 61
DiVincenti FC, 524
Doberneck RC, 33
Domellöf L, 91
Dong E, 192
Donovan AJ, 16, 175
Doohen DJ, 829
Doolan SA, 808
Dunphy JE, 78, 169
DuVal MK, 571

E

Eastland MW III, 558
Edlich RF, 74, 394, 835
Elias EG, 424
Engelman K, 741
Evans WE, 555

F

Facey FL, 175
Farr HW, 714, 726
Fays J, 365
Feins NR, 353
Feroldi J, 802
Filston HC, 432
Fisher RS, 812
Flanigan WJ, 655
Fletcher WS, 209
Flye MW, 427
Fogarty TJ, 231
Foley FD, 524
Fosburg RG, 633
Foster JH, 387, 517
Fraser DG, 169
Frazell EL, 50
Futrell JW, 451

G

Gaeta JF, 756
Gaisford WD, 639
Gallager HS, 607
Garcia EM, 101
Gaucher P, 365
Geelhoed GW, 741
Geens M, 104
Ger R, 115
Gilchrist RK, 363
Glasgow N, 64
Goodwin MN, 591
Graham WP, 430
Graham WP III, 432
Greenfield LJ, 616
Griepp RB, 192
Griffin JM, 18
Grosfeld JL, 22
Guillemin G, 802
Guinn GA, 696, 703
Gunn ML, 622

H

Hafström L, 91
Hajdu SI, 719
Hale HW Jr, 674
Hall AD, 148
Hallin RW, 164
Hanback LD Jr, 117
Harada T, 53
Hardy KL, 256
Harlow MC, 378
Harrison EG Jr, 732
Harrison RC, 198
Harrold CC Jr, 487
Hawk WA, 325
Hayles AB, 472
Herrington JL Jr, 825
Heuse A, 104
Hill GJ II, 36
Hillen GP, 639
Hinshaw DB, 269
Hirai J, 243
Hoeffel JC, 365

Honjo I, 398, 402, 505
Hood TR, 545
Horiot JC, 437
Horn RC Jr, 458
Hovey LM, 744
Hoye RC, 451, 741
Hughes RK, 121
Hunt TK, 78
Hunt WE, 818
Hurwitz A, 834
Hutchinson R, 520
Hutchinson WB, 777
Hutton JE, 183

I

Ihnen M, 95
Inberg MV, 540
Irani FA, 374
Ito K, 53

J

Jaques DA, 744
Jesse RH, 437
Jensen CG, 639
Jones JC, 282
Jones SA, 785
Jordan PH Jr, 703

K

Kandalaft S, 347
Kastl DG, 616
Katz S, 414
Kauffman HM, 555
Kawabe K, 402, 505
Kennelly E, 408
Kerry RL, 536
Ketcham AS, 451
Khafif RA, 464
Kilgore ES Jr, 430
Kinnaert P, 104
Kira K, 398
Kiselow MC, 112
Kluge TH, 792
Knight V, 64
Kobayashi K, 402
Kountz SL, 204, 275
Kramer SG, 560
Kretschmer KP, 417
Krippaehne W, 231
Kubota N, 402
Kuehn PG, 445
Kuratsuka H, 398
Kushner J, 275

L

LaPlante ES, 528
Larsen E, 384
Larsen RR, 36
Latimer RG, 622
Laufman H, 332
Lavenson GS Jr, 226
Lawler MR Jr, 517
Leafstedt SW, 756
Leclerc JL, 104
Lee Y-T N, 42
Levin PM, 183
Lindberg RD, 437
Lindesmith GG, 282
Linna MI, 540
Lloyd J, 549
Locke GE, 818
Longmire WP Jr, 155
Ludewig RM, 85, 502
Luna E, 101

M

MacArthur J, 520
Madden J, 394
Madden JJ Jr, 85, 502
Madden JL, 347
Madden JW, 686
Mahoney EM, 421
Majewski PL, 829
Mannick JA, 344
Marchetta FC, 711, 756
Martis C, 58
Mason M, 808
Massey WH, 209
Mathews JE, 579
Matolo NM, 678
Matyk PM, 808
May IA, 256
Mays ET, 781
McAlhany JC Jr, 117
McArthur MS, 155
McCoy J, 693
McIlrath DC, 797
McNamara JJ, 70
McWilliams TG, 135
Meeker WR Jr, 822
Mester E, 532
Method HL, 132
Meyer BW, 282
Michaelian MJ, 16
Michel A, 802
Mikat DM, 832
Millard DR Jr, 763
Miller JM, 458
Miller RC, 319
Miller RE, 414
Miller T, 513
Min BH, 132
Mittelman A, 424
Mizumoto R, 398
Moeller R, 365
Molot MD, 70
Monafo WW, 603
Moore CH, 576
Moore WS, 148
Moreland N, 64
Morgenstern L, 288, 567
Morse TS, 22
Morton JR, 584, 696
Moss G, 565
Munster AM, 524, 591
Murphy JB, 711
Myerowitz PD, 835

N

Nagel CB, 249
Nakayama F, 8
Nakayasu A, 402, 505
Nalebuff EA, 304
Nethery J, 748
Newmeyer WL, 430
Niazmand R, 513
Nighbert EJ, 822
Nishikawa Y, 53
Norris JEC, 829

O

O'Connor J, 353
Okies JE, 584
Olcott C IV, 260

P

Page US, 164
Palacios M, 101
Panek P, 74, 394
Pasmeg R, 408
Patel R, 520
Peacock EE Jr, 686
Peet WJ, 787
Pemberton LB, 381
Perper JA, 812
Peters HE Jr, 159
Pidlaon A, 812
Poppe JK, 238
Pories WJ, 384
Postlethwait RW, 61
Poth EJ, 699
Prager MD, 494
Pruitt BA Jr, 524, 591
Prusak M, 74, 394
Pryse-Phillips W, 27
Putong PB, 132

R

Ramirez AT, 101
Ransdell HT, 81
Rao MM, 408
Rappaport I, 748
Read RC, 666
Reddy CMK, 594
Reif ME, 616
ReMine WH, 732
Reul GJ, 584
Riahi GH, 603
Rich NM, 183
Rodriguez A, 101
Roe CF, 13
Rosenthal MH, 633
Roth JA, 451
Rumage WT Jr, 552
Rutherford RB, 594

XUM

S

Sailer JE, 64
Sako K, 711, 756
Samson PC, 256
Sanfelippo PM, 472
Savin RC, 770
Schafer GW, 552
Schauerhamer RA, 74
Scheinin TM, 540
Schiller M, 22
Schlesinger RM, 353
Schmidt CD, 622
Schwartz SI, 558
Schweitzer RJ, 223
Scott HW Jr, 517
Shamblin WR, 732
Shedd DP, 756
Sheps SG, 732
Shires GT, 494, 650
Shore JM, 567
Shumrick DA, 440
Shumway NE, 192, 231
Silva YJ, 109
Sisson RG, 378
Smith DE, 633
Spencer JR, 569
Spiro RH, 50, 707
Spiry T, 532
Stanten A, 159
Starkloff GB, 18
Steckler RM, 464
Steiger Z, 374
Stemmer EA, 243
Stephens FO, 78
Stephens HB, 217
Stewart CV, 703
Stiles QR, 282
Stinson EB, 192
Stoller JL, 198
Stremple JF, 70
Strohl EL, 381
Strong EW, 707, 719
Sullivan V, 835
Sullivan WG, 528
Suzuki T, 53, 402, 505
Sweetman WR, 164
Szende B, 532

T

Takeda H, 402, 505
Teeslink R, 95
Tennant R, 445
Thomas TV, 410
Thompson BW, 612, 666
Thompson RJ Jr, 269
Thornton FH, 528
Thul J, 74, 394
Tompkins RK, 1
Tota JG, 532
Toussaint C, 104
Towne JB, 683
Trier WC, 686
Trimble C, 633
Tucker BL, 282
Turnbull RB Jr, 325
Turrill FL, 175

U

Ujiki GT, 132
Ullal SR, 792

V

Vagn Nielsen O, 123
van der Linden W, 8
Van Geertruyden J, 104
Vänttinen E, 540
Vellios F, 418
Vereerstraeten P, 104
Viroslav J, 64

W

Wagner HN Jr, 594
Wagner M, 112
Wagner Y, 650
Wakabayashi A, 243
Walker AG, 594
Wangensteen OH, 74, 394
Wangensteen SL, 85, 502
Warren WD, 300, 763
Weakley FL, 325
Weakley S, 781
Weinberg SM, 418
Wertheimer M, 121
Westbrook KC, 607
White RR, 579
Whitesell FB Jr, 135
Wilkins SA Jr, 477
Williams JA, 368, 545
Williams SW, 829
Williams TW Jr, 64
Winer N, 669
Wissman D, 70
Wolkoff JS, 427
Wolma FJ, 576, 693
Wood DC, 209
Wood M, 674
Woods JE, 797

Y

Yale CE, 787
Yarbrough DR, 117
Yashon D, 818
Younnes RP, 353

Z

Zeller JA, 183
Zeppa R, 300
Zipp P, 204

Subject Index, Volume 122

E = Editorial

A

Abdominal conditions, acute, and urachal disease, 123
Abdominal surgery, upper, pulmonary complications and ventilatory patterns after, 622
Abdominal tap, 693
Abdominal wall, alloplasty of, after extensive cancer surgery, 781
Acalculous cholecystitis, 3
  in burned patients, 591
Actinomycosis of transverse mesocolon, 414
Adenoid cystic carcinoma of major and minor salivary glands, 756
Adhesives, cyanoacrylate tissue, in healing of contaminated wound, 394
Alloplasty of abdominal wall after extensive cancer surgery, 781
Allotransplantation, renal, and bilateral nephrectomy in Wilms' tumor, 275
Amputation in patients with popliteal vein injuries, 528
Anal dilatation for outpatient treatment of internal hemorrhoids, 545
Anastomosis
  aseptic single layer, of bowel, 159
  pyeloileal cutaneous, in urinary tract tuberculosis, 421
Anastomotic leakage after excision of esophageal and high gastric carcinoma, 540
Anesthesia, local
  femoral artery reconstruction using, 513
  mediastinoscopy using, 696
Aneurysm
  bilateral dissecting, of internal carotid arteries, 549
  mycotic, of left subclavian and vertebral arteries after cervicothoracic sympathectomy, 427
  popliteal, and femorotibial bypass, 555
Antibiotics in colon surgery, 787
Antileukocyte cytotoxic antibody in serum of burned patients, 520
Antinuclear factors in serum of burned patients, 520
Antrum, incomplete resection of, ulcerogenic potential of, 198
Aortic lesions evaluated by scintillation camera technics, 95
Aortocoronary bypass in revascularization of heart, 164
Aortoiliac reconstruction, practical alternatives to, 344
Appendicitis, acute, pathogenesis of, and superficial mucosal ulceration, 378
Appendix, varices of, 832
Arm, postmastectomy massive (E), 363
Arterial embolectomy, balloon catheter technic for, 231
Arteriography
  celiac, infarction of gallbladder after, 558
  importance of, in hepatic surgery, 505
  peripheral, radioactive technetium Tc-99m in, 408
  selective, in early detection of pancreatic cancer, 402
Arteriovenous fistula, renal, as cause of hypertension, 117
Arteriovenous shunts, role of, in venous reconstruction, 183
Artery
  carotid
    bilateral dissecting aneurysms of, 549
    protection of, by trapezius muscle flap, 744
  femoral, reconstruction of, using local anesthesia, 513
  hepatic, anatomic variations of, 505
  left subclavian
    and vertebral, mycotic aneurysm of, after cervicothoracic sympathectomy, 427
    mycotic aneurysm of, after cervicothoracic sympathectomy, 427
  major, lesions of, evaluated by scintillation camera technics, 95
  popliteal, repair of injury to, 528
  vertebral, mycotic aneurysm of, after cervicothoracic sympathectomy, 427
Arthritis, rheumatoid, of hand, surgery for, 304
Arthrodesis, for rheumatoid arthritis of hand, 304
Arthroplasty for rheumatoid arthritis of hand, 304
Ascites, post-traumatic pancreatic, 129
Ascorbic acid excretion, urinary, in postoperative patients, 808
Auricular cancer, 770
Axillary-femoral bypass grafting, 148
Axillary mass, breast carcinoma presenting as, 607

B

Balloon catheter technic for arterial embolectomy, 231
Beta glucuronidase, pancreatitis produced by, 398
Bile
  and beta glucuronidase, pancreatitis produced by, 398
  composition in Sweden versus Japan related to gallstone incidence, 8
Biliary decompression in bilothorax, 829
Biliary tract obstruction, choledochojejunostomy for, peptic ulcer disease after, 155
Bilothorax, biliary decompression in, 829
Biopsy, scalene lymph node, prevention of chylous fistula after, 121
Bleomycin for cancer of thyroid, 53
Bochdalek, foramen of, hernia of, 612
Bone graft technic, particulate, in tumor surgery, 748
Books received for review, 294, 706
Boston University Surgical Service Seminar
  introduction to, 295
  papers of, 295–362
Bowel
  aseptic single layer anastomosis of, 159
  exposure of, and body temperature during surgery, 13
  small, surgery for obstruction of, wound complications after, 384
Breast
  cancer
    advanced, castration for, 42
    presenting as axillary mass, 607

XUM

Breast cancer
survey in Ohio, 765
reconstruction (E), 763
Bullet embolus to right ventricle, 584
Burned patients
acalculous cholecystitis in, 591
resuscitation of, proper solution for, 655
serum cytotoxicity studies in, 520
Burns, cardiac infections in, 524
Bypass
aortocoronary, in revascularization of heart, 164
axillary-femoral, in lower extremity ischemia, 148
colon, of esophagus, 217
emergency, for community, 256
total left heart, without heparin, 243

C

Cancer
auricular, 770
lung, positive approach to, 238
of breast
advanced, castration for, 42
presenting as axillary mass, 607
survey of, in Ohio, 765
of floor of mouth, surgery and irradiation for, 487
of larynx
or hypopharynx, predicting survival in, 451
partial laryngectomy for, 440
surgery for stomal recurrences in, 445
of mouth, recurrent or multifocal, second "commando" operation for, 50
of pancreas, arteriography in early detection of, 402
of pharyngeal walls, postcricoid area, and cervical esophagus, repair after surgery for, 482
of rectum, electrocoagulation in, 247
of thyroid, bleomycin for, 53
of vocal cord with anterior commissure extension, 437
surgery, extensive, alloplasty of abdominal wall after, 781
Carcinoma
adenoid cystic, of major and minor salivary glands, 756
anaplastic, lymphoma of head and neck masquerading as, 424
epidermoid, of mobile tongue, 707
esophageal
and high gastric, anastomotic leakage after excision of, 540
appraisal of therapy for, 703
intraoral, and periosteum of mandible, 711
of gallbladder, surgical significance of, 381
of posterior pharyngeal wall, 477
of thyroid with metastasis, total thyroidectomy and node dissection for, 458
papillary, of thyroid, elective neck dissection in, 464
Cardiopulmonary arrest, 282
Carotid artery
internal, bilateral dissecting aneurysms of, 549
protection by trapezius muscle flap, 744
Carotid body tumor, 732
Catheter, balloon, technic of, for arterial embolectomy, 231
Cecum, varices of, 832
Celiac arteriography, infarction of gallbladder after, 558
Cephaloridine, pre- and postoperative prophylactic use of, 61
Cerebral tissue lactate in trimethaphan-induced hypotension, 818
Cervicothoracic sympathectomy causing mycotic aneurysm of left subclavian and vertebral arteries, 427
Chemodectoma, 732
Chemotherapy, systemic, for malignant melanoma, 36
Cholangiography, operative, addition to technic of, 135
Cholecystitis
acalculous, 3
in burned patients, 591
Choledochal pressure, effect of T tube on, 16
Choledochojejunostomy, peptic ulcer disease after, 155
Choledochoscope, improved rigid, 567
Chondrosarcoma of diaphragm, 132
Chylous fistula, prevention of, after scalene lymph node biopsy, 121
Circulation, splanchnic and systemic, effects of glucagon on, 85
Civilian trauma, respiratory failure after, 260
Colectomy during toxic megacolon, surgical approach for, 325
Collagen vascular diseases, gastrointestinal complications of, 678
Colon
bypass of esophagus, 217
seat belt trauma of, 683
surgery, antibiotics in, 787
Colostomy
follow-up study of patients with, 27
and ileostomy to prepare for colectomy during toxic megacolon, 325
transverse, 834
Combat casualties, intravenous hyperalimentation in, 70
"Commando" operation for recurrent or multifocal mouth cancer, 50
Common bile duct, cystic dilatation of, and Laurence-Moon-Biedl-Bardet syndrome, 822
Community, emergency bypass for, 256
Community hospital, intussusception in, 536
Cranial bones, osteogenic sarcoma of, 719
Cystic dilatation and Laurence-Moon-Biedl-Bardet syndrome, 822
Cytotoxicity, serum, in burned patients, 520

D

Diaphragm, chondrosarcoma of, 132
Dissection, elective neck, in papillary carcinoma of thyroid, 464
Duct, pancreatic, mucosal changes of, and acute pancreatitis, 398
Ductus venosus arantii, surgical significance of, 109
Duodenal ulcer, surgical treatment for, 374
Duodenotomy, 777
Duodenum, duplication of, perforating ulcer in, 418
Dumping studies in patients with peptic ulcer, 269
Duplication of duodenum, perforating ulcer in, 418

E

Ear, external, cancer of, 770
Edema, larygeal post-thyroidectomy, 58
Electrocoagulation in cancer of rectum, 347
Electrosurgery in resections of liver, 792
Embolectomy, arterial, balloon catheter technic for, 231

Embolism, pulmonary, prevention and management of, 249
Embolus, bullet, to right ventricle, 584
Emergency bypass for community, 256
Epidermoid carcinoma of mobile tongue, 707
Esophageal carcinoma, anastomotic leakage after excision of, 540
Esophageal variceal hemorrhage, distal splenorenal shunt for, 300
Esophagus
  carcinoma of, appraisal of therapy for, 703
  cervical, cancer of, repair after surgery for, 482
  colon bypass of, 217
Excretion, urinary ascorbic acid, in postoperative patients, 808
Extremities, simple splinting method of securing grafts in, in infants, 432

F

Facial bones, osteogenic sarcoma of, 719
Femoral artery reconstruction using local anesthesia, 513
Femoral vessels, protection of, after groin dissection, 223
Femorotibial bypass and popliteal aneurysms, 555
Fibrillation, induced ventricular, heparinless total left heart bypass with, 243
Fibrocollagenous tube, host-structured, as vascular prosthesis, 112
Fistula
  chylous, prevention of, after scalene lymph node biopsy, 121
  gastrocolic, free perforation of, 115
  renal arteriovenous, as cause of hypertension, 117
Flexor tendon
  function, postoperative recovery of, 686
  repair over proximal phalanx, 319
  retrieval, atraumatic, 430
Fogarty catheter, balloon-tipped, in removal of foreign body, 417
Foramen of Bochdalek, hernia of, in adult, 612
Foreign body
  problem after laparotomy, 785
  removal of, with balloon-tipped Fogarty catheter, 417

G

Gallbladder
  carcinoma of, 381
  infarction of, after celiac arteriography, 558
Gallstones
  etiology of, current investigation of (E), 1
  incidence of, and bile composition in Sweden versus Japan, 8
Gastric carcinoma, high, anastomotic leakage after excision of, 540
Gastric lavage, iced saline, in upper gastrointestinal hemorrhage, 565
Gastric stasis after vagotomy and pyloroplasty, 365
Gastrocolic fistula, free perforation of, 115
Gastrografin test and tubeless vagotomy and pyloroplasty, 368
Gastrointestinal complications of collagen vascular diseases, 678
Gastrointestinal hemorrhage, massive, results of emergency operation for, 387
Glomus jugulare tumor, intravascular, 741
Glossectomy, partial, in epidermoid carcinoma of mobile tongue, 707
Glove powder, rice-starch, granulomatous peritonitis induced by, 812
Glucagon
  effects of, on splanchnic and systemic circulation, 85
  failure of, in experimental hemorrhagic shock, 502
Goiter, indications for surgery in, in children, 472
Grafts
  axillary-femoral bypass, 148
  extremity, simple splinting method of securing, in infants, 432
  of canine thoracic vena cava, jejunal submucosa as, 515
  particulate, in tumor surgery, 748
Granulomatous peritonitis induced by rice-starch glove powder, 812
Groin dissection, protection of femoral vessels after, 223
Gunshot wounds of chest, penetrating, 81

H

Hand, rheumatoid arthritis of, surgery for, 304
Head and neck
  lymphoma of, masquerading as anaplastic carcinoma, 424
  soft part sarcomas of, 714
  surgeons, Society of, papers of, 433–493 (part I); 707–762 (part II)
Heart
  bypass, total left, without heparin, 243
  infection of, in burned patients, 524
  revascularization of, using aortocoronary bypass, 164
  transplantation, human, determinants of operative risk in, 192
Hemodynamic assessment of poor risk and critically ill patients, 560
Hemorrhage
  esophageal variceal, distal splenorenal shunt for, 300
  massive upper gastrointestinal, results of emergency operation for, 387
  upper gastrointestinal, iced saline gastric lavage in, 565
Hemorrhagic shock
  experimental, failure of glucagon in, 502
  treated and untreated, pulmonary changes in, 639
Hemorrhoids, internal, anal dilatation versus rubber band ligation for, 545
Hemosiderosis, iron absorption in, 33
Heparinless total left heart bypass with induced ventricular fibrillation, 243
Hepatic artery, anatomic variations of, surgical significance of, 505
Hepatic ischemia, short-term, in pigs, 91
Hepatic resection, electrosurgery in, 792
Hepatic sequestra, traumatic, 175
Hepatic transplantation, canine orthotopic, simplified method of, 797
Hernia
  inguinal, repair of, using rectus-pyramidalis sheath, 699
  of foramen of Bochdalek in adult, 612
Heterologous antilymphocyte serum, immunosuppressive and oncogenic effects of, 204
Human heart transplantation, determinants of operative risk in, 192
Hyperalimentation, intravenous, in combat casualties, 70
Hypertension caused by renal arteriovenous fistula, 117

XUM

Hypocarbia, pathophysiologic role of, in post-traumatic pulmonary insufficiency, 633
Hypopharnyx, cancer of, predicting survival in, 451
Hypotension, trimethaphan-induced, cerebral tissue lactate in, 818

I

Ileostomy and colostomy to prepare for colectomy during toxic megacolon, 325
Ileus, meconium, nonoperative treatment of, 22
Iliac disease, unilateral, reconstruction in, 410
Iliac venous obstruction palliated by subcutanous saphenofemoral venous crossover shunt, 603
Immune aspects of neuroblastoma, 142
Immunosuppressant, heterologous antilymphocyte serum as, 204
Infants, extremity grafts in, simple splinting method of securing, 432
Inguinal hernia repair using rectus-pyramidalis sheath, 699
Injuries, rectal, management of, 226
Intestinal lymphatic flow, effects of operative manipulation on, 622
Intestinal submucosa, canine, as vascular substitute, 515
Intravascular glomus jugulare tumor, 741
Intussusception in community hospital, 536
Iron absorption in hemosiderosis, 33
Ischemia
  lower extremity, axillary-femoral bypass in, 148
  short-term hepatic and splanchnic, in pigs, 91
Isoenzyme, lactic dehydrogenase, alterations of, in malignant disease of liver, 209

J

Jejunal segment, antiperistaltic, ulceration and obstruction in, 825

L

Lactate
  cerebral tissue, in trimethaphan-induced hypotension, 818
  studies of infusion of Ringer's lactate solution during shock, 494
Lactic dehydrogenase isoenzyme alterations in malignant disease of liver, 209
Laparotomy, foreign body problem after, 785
Laryngeal edema, post-thyroidectomy, 58
Laryngectomy, partial, for cancer of larynx, 440
Larynx
  cancer of
    partial laryngectomy for, 440
    predicting survival in, 451
    surgery for stomal recurrences in, 445
Laser rays, effect of, on wound healing, 532
Laurence-Moon-Biedl-Bardet syndrome and cystic dilatation, 822
Lavage, iced saline gastric, in upper gastrointestinal hemorrhage, 565
Leg veins, assessment of functional status of, 594
Leriche syndrome in patients with subclavian steal, 666
Liver
  malignant disease of, lactic dehydrogenase isoenzyme alterations in, 209
  resections, electrosurgery in, 792
Lung cancer, positive appoach to, 238
Lymph node
  metastasis, cervical, and thyroid carcinoma, total thyroidectomy and node dissection for, 458
  scalene, biopsy of, prevention of chylous fistula after, 121
Lymphatic flow, intestinal, effects of operative manipulation on, 622
Lymphoma of head and neck masquerading as anaplastic carcinoma, 424

M

Mandible, periosteum of, and intraoral carcinoma, 711
Mastectomy, prevention of massive arm after (E), 363
Meconium ileus, nonoperative treatment of, 22
Mediastinoscopy using local anesthesia, 696
Medical profession at crossroads (presidential address, PCSA), 137
Medicine and society, interrelationship of, 571
Megacolon, toxic, surgical treatment of, 325
Melanoma, malignant
  and coexisting malignant neoplasms, 169
  systemic chemotherapy for, 36
Mesenteric venous occlusive disease, 579
Mesocolon, transverse, actinomycosis of, 414
Metaplasia, myeloid, massive splenomegaly due to, splenectomy for, 288
Metastasis, cervical lymph node, and thyroid carcinoma, total thyroidectomy and node dissection for, 458
Microembolization, effects of, on pulmonary function and distribution of labeled macroaggregates of sulfur, 616
Mouth
  floor of, cancer of, surgery and irradiation for, 487
  recurrent or multifocal cancer of, second "commando" operation for, 50
Mucosal ulceration, superficial, and pathogenesis of acute appendicitis, 378
Muscle flap, trapezius, carotid artery protection by, 744
Mycotic aneurysm of left subclavian and vertebral arteries after cervicothoracic sympathectomy, 427
Myeloid metaplasia, massive splenomegaly due to, splenectomy for, 288

N

Neck dissection, elective, in papillary carcinoma of thyroid, 464
Neoplasms, malignant, coexisting with malignant melanoma, 169
Nephrectomy, bilateral, in Wilms' tumor, 275
Neuroblastoma, immune aspects of, 142

O

Obstruction
  biliary tract, choledochojejunostomy for, peptic ulcer disease after, 155
  in antiperistaltic jejunal segment, 825
  small bowel, surgery for, wound complications after, 384
  stomal, after vagotomy for obstructing peptic ulcer, 371

Ohio breast cancer survey, 765
Oncogenic effects of heterologous antilymphocyte serum, 204
Operating rooms, design concepts of, 332
Orbital tumors, primary, 726
Orr Memorial Lecture, 571
Orthotopic hepatic transplantation, canine, 797
Osteogenic sarcoma of facial and cranial bones, 719

P

Pacific Coast Surgical Association, papers of, 137–293
Pancreas
  ascites in, post-traumatic, 129
  cancer of, arteriography in early detection of, 402
Pancreaticoduodenectomy in chronic relapsing pancreatitis, 802
Pancreatitis
  acute, pathogenesis of, and changes in pancreatic ductal mucosa, 398
  chronic relapsing, 802
  chronic, surgery for, 18
Pancreatic duct, mucosal changes of, and acute pancreatitis, 398
Parathyroid tumors, methods for localizing, 669
Particulate graft in tumor surgery, 748
Pediatric patients
  indications for thyroidectomy in, 472
  ureteral reflux in, 353
Peptic ulcer
  after choledochojejunostomy, 155
  dumping studies in patients with, 269
  obstructing, vagotomy for, stomal obstruction after, 371
Periosteum of mandible and intraoral carcinoma, 711
Peritonitis, granulomatous, induced by rice-starch glove powder, 812
Phalanx, proximal, flexor tendon repair over, 319
Pharyngeal walls, cancer of, repair after surgery for, 482
Pharynx, posterior wall of, carcinoma of, 477
Phlebotomy, preoperative, in developing country, 101
Popliteal aneurysm and femorotibial bypass, 555
Popliteal vessels, repair of injury to, 528
Postcricoid area, cancer of, repair after surgery for, 482
Prosthesis, vascular, host-structured fibrocollagenous tube as, 112
Pulmonary changes in treated and untreated hemorrhagic shock, 639
Pulmonary complications after upper abdominal surgery, 622
Pulmonary embolism, prevention and management of, 249
Pulmonary function, effects of experimental recurrent microembolization on, 616
Pulmonary insufficiency, post-traumatic, pathophysiologic role of hypercarbia in, 633
Pyeloileal cutaneous anastomosis in urinary tract tuberculosis, 421
Pyloroplasty and vagotomy
  gastric stasis after, 365
  tubeless, and Gastrografin test, 368

R

Radioactive technetium Tc-99m in peripheral arteriography, 408
Radiotherapy in cancer of vocal cord, 437
Reconstruction
  aortoiliac, practical alternatives to, 344
  breast (E), 763
  venous, arteriovenous shunts in, 183
Rectal injuries, management of, 226
Rectal cancer, electrocoagulation in, 347
Rectus-pyramidalis sheath in repair of inguinal hernia, 699
Reflux, ureteral, in pediatric patients, 353
Renal allotransplantation and bilateral nephrectomy in Wilms' tumor, 275
Renal arteriovenous fistula as cause of hypertension, 117
Respiratory failure after civilian trauma, 260
Resuscitation program, active, evaluation of, 282
Revascularization of heart using aortocoronary bypass, 164
Rheumatoid arthritis of hand, surgery for, 304
Rheumatoid factors in serum of burned patients, 520
Ringer's lactate solution, infusion of, during shock, 494
Rubber band ligation for outpatient treatment of internal hemorrhoids, 545

S

Saline solution, hypertonic lactated, in resuscitation of severely burned patients, 655
Salivary glands, major and minor, adenoid cystic carcinoma of, 756
Saphenofemoral venous crossover shunt, subcutaneous, in palliation of iliac venous obstruction, 603
Sarcoma
  osteogenic, of facial and cranial bones, 719
  soft part, of head and neck, 714
Scalene lymph node biopsy, prevention of chylous fistula after, 121
Scintillation camera technics in evaluation of lesions of aorta and major arteries, 95
Seat belt trauma of colon, 683
Sequestra, traumatic hepatic, 175
Serratia marcescens as postoperative pathogen, 64
Serum
  heterologous antilymphocyte, immunosuppressive and oncogenic effects of, 204
  of burned patients, cytotoxicity studies in, 520
Sheath, rectus-pyramidalis, in repair of inguinal hernia, 699
Shock, hemorrhagic
  failure of glucagon in, 502
  pulmonary changes in, 639
  infusion of Ringer's lactate solution during, 494
Shunts
  arteriovenous, in venous reconstruction, 183
  subcutaneous saphenofemoral venous crossover, in palliation of iliac venous obstruction, 603
Skin wounds, experimental study of tensile strength of, 78
Small bowel obstruction, surgery for, wound complications after, 384
Society of Head and Neck Surgeons
  papers of, 433–493; 707–762
  presidential address, 433
Southwestern Surgical Congress
  papers of 569–705
  presidential address, 569
Spirometry and blood gas analysis in determination of ventilatory patterns and pulmonary complications after upper abdominal surgery, 622

XUM

Splanchnic circulation, effects of glucagon on, 85
Splanchnic ischemia, short-term, in pigs, 91
Splenectomy for massive splenomegaly due to myeloid metaplasia, 288
Splenomegaly, massive, due to myeloid metaplasia, splenectomy for, 288
Splenorenal shunt, distal, for esophageal variceal hemorrhage, 300
Splints in securing extremity grafts in infants, 432
Stasis, gastric, after vagotomy and pyloroplasty, 365
Stress ulcers, prevention of, 674
Subclavian steal and Leriche syndrome, 666
Suffocation, prevention of, tracheostomy cuff in, 835
Surgery, controversy in, symposium on, 295-362
Sympathectomy, cervicothoracic, causing mycotic aneurysm of left subclavian and vertebral arteries, 427
Syndrome, Leriche, in patients with subclavian steal, 666
Synovectomy for rheumatoid arthritis of hand, 304
Systemic circulation, effects of glucagon on, 85

T

T tube and proximal choledochal pressure, 16
Tap, abdominal, 693
Tc-99m in peripheral arteriography, 408
Temperature, body, and exposure of bowel during surgery, 13
Tendon
  flexor, recovery of proximal stump of, 430
  repair over proximal phalanx, 319
  surgery, for rheumatoid arthritis of hand, 304
Tenosynovectomy for rheumatoid arthritis of hand, 304
Thyroid
  cancer, bleomycin for, 53
  carcinoma of, total thyroidectomy and node dissection for, 458
  papillary carcinoma of, elective neck dissection in, 464
Thyroidectomy
  indications for, in pediatric patient, 472
  laryngeal edema after, 58
  modern indications for, 296
  total, and node dissection for thyroid carcinoma, 458
Tissue adhesives in healing of contaminated wound, 394
Tongue, mobile, epidermoid carcinoma of, 707
Tracheostomy cuff designed to prevent suffocation, 835
Transplantation
  canine orthotopic hepatic, simplified method of, 797
  human heart, determinants of operative risk in, 192
Trapezius muscle flap, carotid artery protection by, 744
Trauma
  civilian, respiratory failure after, 260
  pancreatic ascites, 129
  rectal, management of, 226
  seat belt, of colon, 683
  vascular, 576
Traumatic hepatic sequestra, 175
Trimethaphan-induced hypotension, cerebral tissue lactate in, 818
Trypsin and beta glucuronidase, pancreatitis produced by, 398
Tuberculosis of urinary tract, pyeloileal cutaneous anastomosis in, 421
Tumors, parathyroid, methods for localizing, 669

U

Ulcer
  duodenal, surgical treatment for, 374
  peptic
    after choledochojejunostomy, 155
    dumping studies in patients with, 269
    vagotomy for, stomal obstruction after, 371
  perforating, in duodenal duplication, 418
  stress, prevention of, 674
Ulceration
  in antiperistaltic jejunal segment, 825
  superficial mucosal, and pathogenesis of acute appendicitis, 378
Ulcerogenic potential of incompletely resected antrum, 198
Urachus, diseases of, simulating intra-abdominal disorders, 123
Ureteral reflux in pediatric patients, 353
Urinary ascorbic acid excretion in postoperative patients, 808
Urinary tract, tuberculosis of, pyeloileal cutaneous anastomosis in, 421

V

Vagotomy
  and pyloroplasty
    gastric stasis after, 365
    tubeless, and Gastrografin test, 368
  for obstructing peptic ulcer, stomal obstruction after, 371
Varices of appendix and cecum, 832
Vascular diseases, collagen, gastrointestinal complications of, 678
Vascular prosthesis, host-structured fibrocollagenous tube as, 112
Vascular trauma, 576
Veins
  leg, assessment of functional status of, 594
  mesenteric, primary occlusive disease of, 579
  popliteal, injury to, repair of, 528
Vena cava
  canine, jejunal submucosa as graft in, 515
  suprahepatic inferior, wound to, 552
Venous crossover shunt, subcutaneous saphenofemoral, in palliation of iliac venous obstruction, 603
Venous occlusive disease, primary mesenteric, 579
Venous reconstruction, arteriovenous shunts in, 183
Ventilatory patterns after upper abdominal surgery, 622
Ventricle, right, bullet embolus to, 584
Ventricular fibrillation, induced, heparinless total left heart bypass with, 243
Vocal cord, cancer of, with anterior commisure extension, 437

W

Wilms' tumor, bilateral, 275
Wounds
  complications of, after surgery for small bowel obstruction, 384
  contaminated, tissue adhesives in healing of, 394
  healing of, effect of laser rays on, 532
  of chest, penetrating gunshot, 81
  skin, experimental study of tensile strength of, 78
  surgical and postoperative surface contamination, 74
  to suprahepatic inferior vena cava, 552

The American Journal of Surgery

EDITOR

ROBERT M. ZOLLINGER, MD, *Columbus, Ohio*

ADVISORY BOARD

W. GERALD AUSTEN, MD, *Boston;* JOHN M. BEAL, MD, *Chicago;* B. MARDEN BLACK, MD, *Rochester, Minn;* LYMAN A. BREWER, III, MD, *Loma Linda;* JOHN J. BYRNE, MD, *Boston;* CHARLES GARDNER CHILD, 3RD, MD, *Ann Arbor;* RANDOLPH LEE CLARK, JR, MD, *Houston;* H. WILLIAM CLATWORTHY, JR, MD, *Columbus;* ISIDORE COHN, JR, MD, *New Orleans;* WILLIAM R. DRUCKER, MD, *Toronto;* J. ENGLEBERT DUNPHY, MD, *San Francisco;* PAUL A. EBERT, MD, *New York;* RICHARD H. EGDAHL, MD, *Boston;* DANIEL W. ELLIOTT, MD, *Pittsburgh;* JUDAH FOLKMAN, MD, *Boston;* MAX R. GASPAR, MD, *Long Beach;* D. P. HALL, MD, *Louisville;* JAMES D. HARDY, MD, *Jackson;* J. HARTWELL HARRISON, MD, *Boston;* STANLEY O. HOERR, MD, *Cleveland;* COLIN T. HOWE, BM, BCH, *London, England;* CHARLES A. HUFNAGEL, MD, *Washington, DC;* GEORGE L. JORDAN, JR, MD, *Houston;* ARNOLD J. KREMEN, MD, *Minneapolis;* K. ALVIN MERENDINO, MD, *Seattle;* FRANK G. MOODY, MD, *Birmingham, Alabama;* WILLIAM H. MULLER, JR, MD, *Charlottesville;* JOHN S. NAJARIAN, MD, *Minneapolis;* SIDNEY W. NELSON, MD, *Columbus;* ERLE E. PEACOCK, JR, MD, *Tucson;* EDGAR J. POTH, MD, *Galveston;* THOMAS B. QUIGLEY, MD, *Boston;* VICTOR RICHARDS, MD, *San Francisco;* JOHN A. SCHILLING, MD, *Oklahoma City;* TOM SHIRES, MD, *Dallas;* ROBERT TURELL, MD, *New York;* ROGER D. WILLIAMS, MD, *Miami;* GEORGE D. ZUIDEMA, MD, *Baltimore*

VOLUME 122

1971

Published by

DUN•DONNELLEY PUBLISHING CORPORATION

466 LEXINGTON AVENUE, NEW YORK, NEW YORK 10017

MCMLXXI

XUM

Contents of Volume 122

July 1971

1	**Current Status of Investigations into the Etiology of Gallstones**	Ronald K. Tompkins
3	**Acalculous Cholecystitis**	Åke Andersson, Leif Bergdahl, Lennart Boquist
8	**Bile Composition: Sweden versus Japan. Its Possible Significance in the Difference in Gallstone Incidence**	Fumio Nakayama, Willem van der Linden
13	**Effect of Bowel Exposure on Body Temperature during Surgical Operations**	C. Francis Roe
16	**Effect of a T Tube on Proximal Choledochal Pressure**	Melvyn J. Michaelian, Clarence J. Berne, Arthur J. Donovan
18	**Surgery of Chronic Pancreatitis**	John M. Griffin, Gene B. Starkloff
22	**Nonoperative Treatment of Meconium Ileus. An Experimental Study in Rats**	Medad Schiller, Jay L. Grosfeld, Thomas S. Morse
27	**Follow-up Study of Patients with Colostomies**	William Pryse-Phillips
33	**Factors Influencing Hemosiderosis. The Role of Iron Absorption**	Raymond C. Doberneck
36	**Improved Systemic Chemotherapy for Malignant Melanoma**	Robert R. Larsen, George J. Hill, II
42	**Therapeutic Castration for Advanced Breast Cancer**	Yeu-Tsu N. Lee
50	**Surgical Treatment of Recurrent or Multifocal Mouth Cancer. Evaluation of Twenty-Seven Patients Treated by a Second "Commando" Operation**	Ronald H. Spiro, Edgar L. Frazell
53	**Bleomycin Treatment for Cancer of the Thyroid**	Tanekazu Harada, Yoshihiko Nishikawa, Takuya Suzuki, Kunihiko Ito, Shozo Baba
58	**Post-Thyroidectomy Laryngeal Edema. A Survey of Fifty-Four Cases**	Christos Martis, Socrates Athanassiades
61	**Pre- and Postoperative Prophylactic Use of Cephaloridine. A Study of 201 Cases**	Marcus L. Dillon, Raymond W. Postlethwait
64	**Serratia Marcescens as a Postoperative Pathogen**	T. W. Williams, Jr, J. E. Sailer, J. Viroslav, V. Knight, N. Glasgow, N. Moreland
70	**Intravenous Hyperalimentation. An Important Adjunct in the Treatment of Combat Casualties**	Joseph Judson McNamara, Mark D. Molot, David Wissman, Countee Collins, John F. Stremple
74	**Studies in the Management of the Contaminated Wound. VII. Susceptibility of Surgical Wounds to Postoperative Surface Contamination**	Robert A. Schauerhamer, Richard F. Edlich, Patricia Panek, Jane Thul, Margaret Prusak, Owen H. Wangensteen
78	**Study of Traditional Methods of Care on the Tensile Strength of Skin Wounds in Rats**	Frederick O. Stephens, Thomas K. Hunt, J. Englebert Dunphy
81	**Treatment of Penetrating Gunshot Wounds of the Chest. Experience with One Hundred Forty-Five Cases**	Alonzo R. Borja, Herbert T. Ransdell

85 **Effects of Glucagon on the Splanchnic and the Systemic Circulation** . . . . . James J. Madden, Jr, Robert M. Ludewig, Stephen L. Wangensteen

91 **Immediate Effects of Short-Term Hepatic and Splanchnic Ischemia in Pigs** . . . O. Almersjö, S. Bengmark, L. Domellöf, L. Hafström

95 **Evaluation of Lesions of the Aorta and Major Arteries by Scintillation Camera Technics** . . . . . Menard Ihnen, Rex Teeslink, Joseph L. Caldwell, Jr

101 **Experience with Preoperative Phlebotomy in a Developing Country** . . . . . Alfredo T. Ramirez, Enrique M. Garcia, Manreza Palacios, Alfredo Rodriguez, Erlinda Luna

104 **Experience with Arteriovenous Fistulas in Chronic Hemodialysis** . . . . . P. Kinnaert, M. Geens, P. Vereerstraeten, A. Heuse, R. Buchin, J. L. Leclerc, C. Toussaint, J. Van Geertruyden

109 **Surgical Significance of the Ductus Venosus Arantii** . . . . . Zacarias G. Asuncion, Yvan J. Silva

112 **A Host-Structured Fibrocollagenous Tube as a Vascular Prosthesis** . . . . . Marvin Wagner, Mark C. Kiselow, Rolando Buan

115 **Free Perforation of a Gastrocolic Fistula** . . . . . R. Ger, H. Adler, R. G. Bernstein

117 **Renal Arteriovenous Fistula as a Cause of Hypertension** . . . . . Joseph C. McAlhany, Jr, H. Cooper Black, Jr, Lawrence D. Hanback, Jr, Dabney R. Yarbrough, III

121 **Scalene Lymph Node Biopsy. Prevention of Postoperative Chylous Fistula** . . . Mark Wertheimer, Richard K. Hughes

123 **Diseases of the Urachus Simulating Intra-abdominal Disorders** . . . . . Mogens Blichert-Toft, Ole Vagn Nielsen

129 **Post-Traumatic Pancreatic Ascites** . . . . . Chau-Hsiung Chang, Kai-Mo Chen

132 **Primary Chondrosarcoma of the Diaphragm** . . . . . Gerald T. Ujiki, Harold L. Method, Paul B. Putong, Byung H. Min

135 **A Valuable Addition to the Technic of Operative Cholangiography** . . . . . Frank B. Whitesell, Jr, Thomas G. McWilliams

August 1971

PAPERS OF THE PACIFIC COAST SURGICAL ASSOCIATION

137 **Presidential Address: The Medical Profession at a Crossroads** . . . . . Joel W. Baker

142 **Immune Aspects of Neuroblastoma. Current Information** . . . . . Alexander H. Bill

148 **Late Results of Axillary-Femoral Bypass Grafting** . . . . . Wesley S. Moore, Albert D. Hall, F. William Blaisdell

155 **Peptic Ulcer Disease after Choledochojejunostomy** . . . . . Michael S. McArthur, William P. Longmire, Jr

159 **Aseptic Single Layer Anastomosis of the Bowel. A Review of One Hundred Seventy-Five Cases** . . . . . Harry E. Peters, Jr, Arthur Stanten

XUM

164 **Revascularization of the Heart. Aortocoronary Bypass in Sixty-Three Patients** . Roger W. Hallin, U. Scott Page, John C. Bigelow, William R. Sweetman

169 **Malignant Melanoma and Coexisting Malignant Neoplasms** . . . . . David G. Fraser, John G. Bull, Jr, J. Englebert Dunphy

175 **Traumatic Hepatic Sequestra** . . . . . Fred L. Turrill, Arthur J. Donovan, F. Laird Facey

183 **Role of Arteriovenous Shunts in Venous Reconstruction**. . . . . Phillip M. Levin, Norman M. Rich, John E. Hutton, Jr, Wiley F. Barker, Jack A. Zeller

192 **Determinants of Operative Risk in Human Heart Transplantation** . . . . . Randall B. Griepp, Edward B. Stinson, Eugene Dong, Jr, David A. Clark, Norman E. Shumway

198 **Ulcerogenic Potential of the Incompletely Resected Antrum**. . . . . Robert Cameron Harrison, Julius Louis Stoller

204 **Analysis of the Immunosuppressive and Oncogenic Effects of Heterologous Antilymphocyte Serum** . . . . . Paul Zipp, Samuel L. Kountz

209 **Lactic Dehydrogenase Isoenzyme Alterations in Malignant Disease of the Liver** . William H. Massey, Daniel L. Dennis, William S. Fletcher, Don C. Wood

217 **Colon Bypass of the Esophagus** . . . . . H. Brodie Stephens

223 **Protection of Femoral Vessels after Groin Dissection** . . . . . Robert J. Schweitzer

226 **Management of Rectal Injuries** . . . . . George S. Lavenson, Jr, Arthur Cohen

231 **Experience with Balloon Catheter Technic for Arterial Embolectomy**. . . . . Thomas J. Fogarty, Pat O. Daily, Norman E. Shumway, William Krippaehne

238 **A Positive Approach to Lung Cancer**. . . . . J. Karl Poppe

243 **Heparinless Total Left Heart Bypass with Induced Ventricular Fibrillation**. . . . Akio Wakabayashi, Junichi Hirai, Edward A. Stemmer, John E. Connolly

249 **Special Problems in the Prevention and Management of Pulmonary Embolism** . Carl B. Nagel

256 **Emergency Bypass for the Community**. . . . . Ivan A. May, Kenneth L. Hardy, Paul C. Samson

260 **Diagnosis and Treatment of Respiratory Failure after Civilian Trauma**. . . . . Cornelius Olcott, IV, Richard E. Barber, F. William Blaisdell

269 **Pre- and Postoperative "Dumping Studies" in Patients with Peptic Ulcer** . . . . David B. Hinshaw, Ralph J. Thompson, Jr, Bruce W. Branson

275 **Treatment of Bilateral Wilms' Tumor** . . . . . Alfred A. deLorimier, Folkert O. Belzer, Samuel L. Kountz, Joseph Kushner

282 **Cardiopulmonary Arrest. Evaluation of an Active Resuscitation Program** . . . . Quentin R. Stiles, Bernard L. Tucker, Bert W. Meyer, George G. Lindesmith, John C. Jones

288 **Splenectomy for Massive Splenomegaly due to Myeloid Metaplasia** . . . . . Leon Morgenstern

294 **Books Received for Review**

September 1971

SYMPOSIUM ON CONTROVERSY IN SURGERY

295 **Boston University Surgical Service Seventeenth Annual Seminar: Introduction** . John J. Byrne

296 **Modern Indications for Thyroidectomy** . . . . . Bentley P. Colcock

300 **The Distal Splenorenal Shunt** . . . . . Robert Zeppa, W. Dean Warren

304 **Present Status of Rheumatoid Hand Surgery** . . . . . Edward A. Nalebuff

319 **Flexor Tendon Repair over the Proximal Phalanx** . . . . . Richard C. Miller

325 **Surgical Treatment of Toxic Megacolon. Ileostomy and Colostomy to Prepare Patients for Colectomy** . . . . . Rupert B. Turnbull, Jr, William A. Hawk, Frank L. Weakley

332 **What's Wrong with Our Operating Rooms?** . . . . . Harold Laufman

344 **Are There Practical Alternatives to Aortoiliac Reconstruction?** . . . . . John A. Mannick

347 **Clinical Evaluation of Electrocoagulation in the Treatment of Cancer of the Rectum** . . . . . John L. Madden, Souhel Kandalaft

353 **Ureteral Reflux in Pediatric Patients** . . . . . Neil R. Feins, Robert M. Schlesinger, John O'Connor, Robert P. Younnes

End of Symposium Papers

363 **The Postmastectomy Massive Arm: A Usually Preventable Catastrophy** . . . . . R. Kennedy Gilchrist

365 **Gastric Stasis after Vagotomy and Pyloroplasty** . . . . . J. C. Hoeffel, D. Benoit, J. Fays, P. Gaucher, R. Moeller

368 **Tubeless Vagotomy and Pyloroplasty and the "Gastrografin Test"** . . . . . N. Parke Davies, J. A. Williams

371 **Stomal Obstruction after Vagotomy in the Treatment of Obstructing Peptic Ulcer** . . . . . Elmo J. Cerise, Ronald W. Busuttil

374 **Evaluation of Surgical Treatment for Duodenal Ulcer. A Prospective Randomized Study** . . . . . Farrokh A. Irani, Ernest Berkas, Zwi Steiger

378 **Superficial Mucosal Ulceration and the Pathogenesis of Acute Appendicitis** . . . . Richard G. Sisson, Robert C. Ahlvin, Mark C. Harlow

381 **The Surgical Significance of Carcinoma of the Gallbladder** . . . . . L. Beaty Pemberton, Willis F. Diffenbaugh, E. Lee Strohl

384 **Frequency of Wound Complications after Surgery for Small Bowel Obstruction** . . . . Eric Larsen, Walter J. Pories

387 **Immediate Results of Emergency Operation for Massive Upper Gastrointestinal Hemorrhage. A Cooperative Study by the Connecticut Society of American Board Surgeons**

394 **Studies in the Management of the Contaminated Wound. VIII. Assessment of Tissue Adhesives for Repair of Contaminated Tissue** . . . . . Richard F. Edlich, Jane Thul, Margaret Prusak, Patricia Panek, Joan Madden, Owen H. Wangensteen

XUM

398 **Pathogenesis of Acute Pancreatitis and Changes of Pancreatic Ductal Mucosa** . . Ryuji Mizumoto, Hitoshi Kuratsuka, Katsumasa Kira, Ichio Honjo

418 **Perforating Ulcer in a Duodenal Duplication** . . . . . Walter E. Dickinson, Steven M. Weinberg, Frank Vellios

421 **Pyeloileal Cutaneous Anastomosis for Diversion in Urinary Tract Tuberculosis** . Edward M. Mahoney, Hathorn P. Brown

424 **Lymphoma of the Head and Neck Masquerading as Carcinoma** . . . . . E. G. Elias, A. Mittelman

427 **Mycotic Aneurysm of the Left Subclavian and Vertebral Arteries. A Complication of Cervicothoracic Sympathectomy** . . . . . M. Wayne Flye, Jerry S. Wolkoff

430 **Atraumatic Flexor Tendon Retrieval** . . . . . E. S. Kilgore, Jr, D. R. Adams, W. L. Newmeyer, W. P. Graham

432 **A Simple Splinting Method for Protecting Extremity Grafts in Infants** . . . . . H. C. Filston, W. P. Graham, III

October 1971

PAPERS OF THE SOCIETY OF HEAD AND NECK SURGEONS (PART I)

433 **Presidential Address: Head and Neck Surgery: The Pursuit of Excellence** . . . . Harvey W. Baker

437 **Vocal Cord Cancer with Anterior Commissure Extension. Choice of Treatment** . . Richard H. Jesse, Robert D. Lindberg, Jean-Claude Horiot

440 **Partial Laryngectomy** . . . . . Donald A. Shumrick

445 **Surgical Treatment of Stomal Recurrences in Cancer of the Larynx** . . . . . Paul G. Kuehn, Robert Tennant

451 **Predicting Survival in Cancer of the Larynx or Hypopharynx** . . . . . James W. Futrell, Stephen H. Bennett, Robert C. Hoye, Joel A. Roth, Alfred S. Ketcham

458 **Thyroid Carcinoma with Cervical Lymph Node Metastasis. Effectiveness of Total Thyroidectomy and Node Dissection** . . . . . Melvin A. Block, J. Martin Miller, Robert C. Horn, Jr

464 **Elective Neck Dissection in Papillary Carcinoma of the Thyroid** . . . . . Joseph N. Attie, Rene A. Khafif, Robert M. Steckler

472 **Indications for Thyroidectomy in the Pediatric Patient** . . . . . Peter M. Sanfelippo, Oliver H. Beahrs, Alvin B. Hayles

477 **Carcinoma of the Posterior Pharyngeal Wall** . . . . . Sam A. Wilkins, Jr

482 **Methods of Repair after Surgery for Cancer of the Pharyngeal Wall, Postcricoid Area, and Cervical Esophagus** . . . . . A. J. Ballantyne

487 **Management of Cancer of the Floor of the Mouth** . . . . . Charles C. Harrold, Jr

End of Society Papers

494 **The Infusion of Ringer's Lactate Solution during Shock. Changes in Lactate, Excess Lactate, and pH** . . . . . Peter C. Canizaro, Morton D. Prager, G. Thomas Shires

502 **Failure of Glucagon in Experimental Hemorrhagic Shock** . . . . . James J. Madden, Jr, Robert M. Ludewig, Stephen L. Wangensteen

505 **Surgical Significance of Anatomic Variations of the Hepatic Artery.** . . . . . Takashi Suzuki, Akira Nakayasu, Katsumi Kawabe, Hiroshi Takeda, Ichio Honjo

513 **Femoral Artery Reconstruction under Local Anesthesia. Maximal Results for Minimal Risk** . . . . . Timothy Miller, Rahmat Niazmand, Wiley F. Barker

517 **Evaluation of Canine Intestinal Submucosa as a Vascular Substitute.** . . . . . Marion R. Lawler, Jr, John H. Foster, H. William Scott, Jr

520 **Rheumatoid, Antinuclear, and Antileukocyte Cytotoxic Factors in Patients with Burns** . . . . . Ray Hutchinson, Ramon Patel, John MacArthur

524 **Cardiac Infections in Burns** . . . . . Andrew M. Munster, Frank C. DiVincenti, F. D. Foley, Basil A. Pruitt, Jr

528 **Early Influence of Popliteal Vein Repair in the Treatment of Popliteal Vessel Injuries** . . . . . William G. Sullivan, Fred H. Thornton, Lawrence H. Baker, Eugene S. LaPlante, Arthur Cohen

532 **Effect of Laser Rays on Wound Healing.** . . . . . E. Mester, T. Spiry, B. Szende, Jolan G. Tota

536 **Intussusception in a Community Hospital. A Review of Fifty Cases.** . . . . . Robert L. Kerry

540 **Anastomotic Leakage after Excision of Esophageal and High Gastric Carcinoma.** M. V. Inberg, M. I. Linna, T. M. Scheinin, E. Vänttinen

545 **Anal Dilatation versus Rubber Band Ligation for Internal Hemorrhoids. Method of Treatment in Outpatients.** . . . . . T. Ruffin Hood, J. Alexander Williams

549 **Bilateral Dissecting Aneurysms of the Internal Carotid Arteries.** . . . . . Jon Lloyd, Henry T. Bahnson

552 **Wounds of the Suprahepatic Inferior Vena Cava.** . . . . . W. Burford Davis, William T. Rumage, Jr, George W. Schafer

555 **Femorotibial Bypass in Patients with Popliteal Aneurysms** . . . . . William E. Evans, Victor M. Bernhard, H. Myron Kauffman

558 **Infarction of the Gallbladder after Celiac Arteriography.** . . . . . Mark W. Eastland, III, Seymour I. Schwartz

560 **Hemodynamic Assessment of Poor Risk and Critically Ill Patients.** . . . . . Frank B. Collins, Scott G. Kramer

565 **Technic of Iced Saline Gastric Lavage in Upper Gastrointestinal Hemorrhage** . . Gerald Moss

567 **An Improved Rigid Choledochoscope** . . . . . J. Manny Shore, Leon Morgenstern, George Berci

November 1971

PAPERS OF THE SOUTHWESTERN SURGICAL CONGRESS

569 **Presidential Address: The Physician's Reaction to Change.** . . . . . J. Robert Spencer

571 **Thomas G. Orr Memorial Lecture: Medicine and Society. Whatever Happened to Homeostasis?** . . . . . Merlin K. DuVal

XUM

576 **Vascular Trauma. A Review of 250 Cases** . . . . . Charles H. Moore, Fred J. Wolma, Richard W. Brown, John R. Derrick

579 **Primary Mesenteric Venous Occlusive Disease** . . . . . James E. Mathews, Raleigh R. White

584 **Bullet Embolus to the Right Ventricle. Report of Three Cases** . . . . . Jeremy R. Morton, George J. Reul, Neal R. Arbegast, J. Edward Okies, Arthur C. Beall, Jr

591 **Acalculous Cholecystitis in Burned Patients** . . . . . Andrew M. Munster, Malcolm N. Goodwin, Basil A. Pruitt, Jr

594 **A New Quantitative Method of Assessing the Functional Status of the Leg Veins** . . . . . Robert B. Rutherford, C. M. Krishna Reddy, Anthony G. Walker, Henry N. Wagner, Jr

603 **Subcutaneous Saphenofemoral Venous Crossover Shunt: Simple Palliation of Iliac Venous Obstruction** . . . . . G. H. Riahi, William W. Monafo

607 **Breast Carcinoma Presenting as an Axillary Mass** . . . . . Kent C. Westbrook, H. Stephen Gallager

612 **Hernia of the Foramen of Bochdalek in the Adult** . . . . . Thomas R. Ahrend, Bernard W. Thompson

616 **Effects of Experimental Recurrent Microembolization on Pulmonary Function and Distribution of Labeled Macroaggregates of Sulfur** . . . . . Michael E. Reif, David G. Kastl, Jacqueline J. Coalson, Lazar J. Greenfield

622 **Ventilatory Patterns and Pulmonary Complications after Upper Abdominal Surgery Determined by Preoperative and Postoperative Computerized Spirometry and Blood Gas Analysis** . . . . . Ronald G. Latimer, Marion Dickman, W. Clinton Day, Margaret L. Gunn, C. DuWayne Schmidt

633 **Pathophysiologic Role of Hypocarbia in Post-Traumatic Pulmonary Insufficiency** . . . . . Cleve Trimble, David E. Smith, Myer H. Rosenthal, Richard G. Fosburg

639 **Pulmonary Changes in Treated and Untreated Hemorrhagic Shock. I. Early Functional and Ultrastructural Alterations after Moderate Shock** . . . . . G. Philip Hillen, Walter D. Gaisford, Cynthia G. Jensen

650 **Changes in Intracellular Sodium and Potassium Content of Red Blood Cells in Trauma and Shock** . . . . . Joseph N. Cunningham, Jr, G. Tom Shires, Yvonne Wagner

655 **What Constitutes the Proper Solution for Resuscitation of the Severely Burned Patient?** . . . . . Fred T. Caldwell, Robert E. Casali, William J. Flanigan, Bonnie Bowser

662 **Effects of Operative Manipulation on the Flow of Intestinal Lymphatics** . . . . . Fevzi Akcay, Norman B. Ackerman

666 **Incidence of the Leriche Syndrome in Patients with Subclavian Steal** . . . . . Bernard W. Thompson, Raymond C. Read

669 **Evaluation of Methods for Localizing Parathyroid Tumors** . . . . . Norman B. Ackerman, Nathaniel Winer

674 **Prevention of Stress Ulcers** . . . . . Merrill S. Chernov, Harry W. Hale, Jr, MacDonald Wood

678 **Gastrointestinal Complications of Collagen Vascular Diseases. Surgical Implications** . . . . . Nathaniel M. Matolo, Dominic Albo, Jr

683 **Seat Belt Trauma of the Colon** . . . . . Jonathan B. Towne, John D. Coe

686 **Postoperative Recovery of Flexor Tendon Function** . . . . . Erle E. Peacock, Jr, John W. Madden, William C. Trier

693 **Abdominal Tap. Indication, Technic, and Results** . . . . . James McCoy, Fred J. Wolma

696 **Mediastinoscopy Using Local Anesthesia** . . . . . Jeremy R. Morton, Gene A. Guinn

699 **Inguinal Hernia Repair Using the Rectus-Pyramidalis Sheath** . . . . . Edgar J. Poth

703 **Appraisal of Therapy for Carcinoma of the Esophagus** . . . . . Gene A. Guinn, Paul H. Jordan, Jr, Charles V. Stewart

706 **Books Received for Review**

December 1971

PAPERS OF THE SOCIETY OF HEAD AND NECK SURGEONS (PART II)

707 **Epidermoid Carcinoma of the Mobile Tongue. Treatment by Partial Glossectomy Alone** . . . . . Ronald H. Spiro, Elliot W. Strong

711 **The Periosteum of the Mandible and Intraoral Carcinoma** . . . . . Frank C. Marchetta, Kumao Sako, J. Brian Murphy

714 **Soft Part Sarcomas of the Head and Neck** . . . . . Hollon W. Farr

719 **Osteogenic Sarcoma of the Facial and Cranial Bones. A Review of Forty-Three Cases** . . . . . Arthur S. Caron, Steven I. Hajdu, Elliot W. Strong

726 **Primary Orbital Tumors** . . . . . Yehuda G. Adam, Hollon W. Farr

732 **Carotid Body Tumor (Chemodectoma). Clinicopathologic Analysis of Ninety Cases** . . . . . William R. Shamblin, William H. ReMine, Sheldon G. Sheps, Edgar G. Harrison, Jr

741 **Surgical Management of Intravascular Glomus Jugulare Tumor** . . . . . Paul B. Chretien, Karl Engelman, Robert C. Hoye, Glenn W. Geelhoed

744 **Carotid Artery Protection by Means of a Trapezius Muscle Flap** . . . . . Darrell A. Jaques, Leslie M. Hovey, Robert G. Chambers

748 **The Particulate Graft in Tumor Surgery** . . . . . I. Rappaport, P. V. Boyne, J. Nethery

756 **Adenoid Cystic Carcinoma of Major and Minor Salivary Glands** . . . . . Stuart W. Leafstedt, John F. Gaeta, Kumao Sako, Frank C. Marchetta, Donald P. Shedd

End of Society Papers

763 **Breast Reconstruction: A Plea for Saving the Uninvolved Nipple** . . . . . D. Ralph Millard, Jr, John Devine, Jr, W. Dean Warren

765 **Ohio Breast Cancer Survey, 1960–1969. Sponsored by the Ohio Chapter of the American College of Surgeons**

770 **Auricular Cancer. Some Surgical and Pathologic Considerations** . . . . . Marvin S. Arons, Ronald C. Savin

777 **Duodenotomy** . . . . . William B. Hutchinson

XUM

781 **Alloplasty of the Abdominal Wall after Extensive Cancer Surgery** . . . . . E. Truman Mays, Sam Weakley

785 **The Foreign Body Problem after Laparotomy. Personal Experiences** . . . . . S. Austin Jones

787 **Antibiotics in Colon Surgery** . . . . . Charles E. Yale, Walter J. Peet

792 **Electrosurgery in Resections of the Liver. An Experimental Study** . . . . . Trond H. Kluge, Shiv R. Ullal

797 **Simplified Method of Canine Orthotopic Hepatic Transplantation** . . . . . Avram M. Cooperman, John E. Woods, Donald C. McIlrath

802 **Chronic Relapsing Pancreatitis. Surgical Management Including Sixty-Three Cases of Pancreaticoduodenectomy** . . . . . Georges Guillemin, J. Cuilleret, A. Michel, P. Berard, J. Feroldi

808 **Urinary Ascorbic Acid Excretion in Postoperative Patients** . . . . . Marion Mason, Patricia M. Matyk, Sally A. Doolan

812 **Granulomatous Peritonitis Induced by Rice-Starch Glove Powder. A Clinical and Experimental Study** . . . . . Joshua A. Perper, Arturo Pidlaon, Russel S. Fisher

818 **Cerebral Tissue Lactate in Trimethaphan-Induced Hypotension** . . . . . George E. Locke, David Yashon, William E. Hunt

822 **Association of Cystic Dilatation of Intrahepatic and Common Bile Ducts with Laurence-Moon-Biedl-Bardet Syndrome** . . . . . William R. Meeker, Jr, Edwin J. Nighbert

825 **Ulceration and Obstruction in an Antiperistaltic Jejunal Segment of Excessive Length** . . . . . J. Lynwood Herrington, Jr

829 **Biliary Decompression in the Treatment of Bilothorax** . . . . . Samuel W. Williams, Paul L. Majewski, James E. C. Norris, Buell C. Cole, Donald J. Doohen

832 **Varices of the Appendix and Cecum** . . . . . Dorothy M. Mikat

834 **Transverse Colostomy** . . . . . Alfred Hurwitz

835 **A Tracheostomy Cuff Designed to Prevent Suffocation** . . . . . P. David Myerowitz, Vincent Sullivan, Richard F. Edlich

COPYRIGHT © 1971

BY DUN • DONNELLEY PUBLISHING CORPORATION

All rights reserved. No parts of the contents of this publication may be reproduced or distributed without the prior written consent of the publisher.

Printed in the United States of America

XUM